

## Operable Unit 1

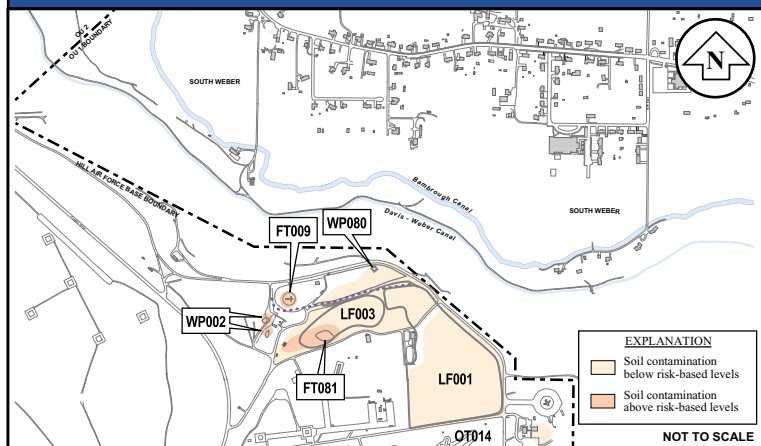
(IRP Sites: FT009, FT081, LF001, LF003, OT014, WP002, WP080)

Program Manager: Jeffrey Watkins



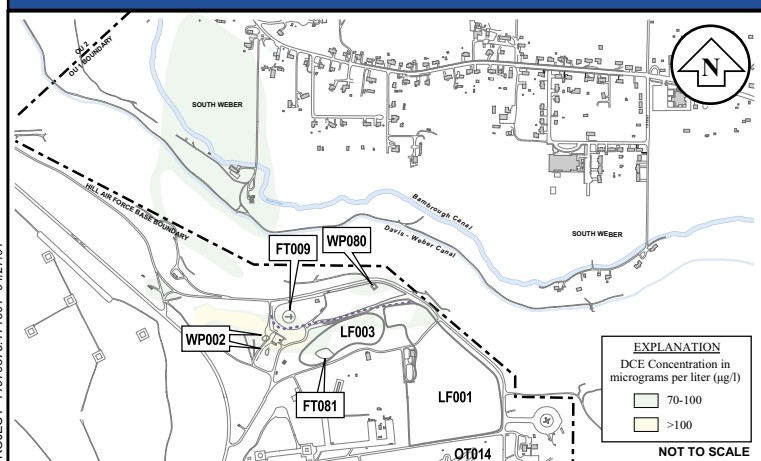
### Contaminants of Concern — Soil

TCE, PCE, DCE, Chlorobenzene, Chrysene, Benzo(a)pyrene, Trichlorobenzene, Naphthalene, Dichlorobenzene, Pentachlorophenol



### Contaminants of Concern — Ground Water

Benzene, TCE, PCE, DCE, Chlorobenzene, Vinyl Chloride, Trichlorobenzene, Naphthalene, Dichlorobenzene, Arsenic



### Project Information Highlights

#### Site Summary

**FT009:** Fire Training Area 1 — Active 1958–1973; jet fuel and waste solvents.

**FT081:** Fire Training Area 2 — Active 1973–1995; jet fuel and waste solvents.

**LF001:** Landfill 4 — Operated 1967–1973; domestic solid waste, waste solvents, IWTP sludge, electroplating wastes.

**LF003:** Landfill 3 — Active 1947–1967; domestic solid waste, waste solvents, IWTP sludge, electroplating wastes.

**OT014:** Golf Course — No known disposal activities. NFRAP site.

**WP002:** Chemical Disposal Pits 1 & 2 — Active 1952–1974; jet fuel and waste solvents.

**WP080:** Waste Phenol/Oil Pit — Unknown activity period; waste oils and phenol.

- Operations since the 1940's included disposal of waste products in on-base pits and landfills and fire training activities. All sites are NPL sites, although OT014 has been removed from the Federal Facilities Agreement. Six sites have impacted soil and ground water. Cease/desist order by Utah Department of Health in 1984.
- Interim actions initiated in 1985 and continue at present (seep/spring collection/treatment, slurry wall.).
- EPA and DOD-funded technology demonstration site from 1994–1997.
- ROD signed September 1998.
- Design completed October 1999. Construction scheduled for completion, June 2001.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1982	Remedial Action	2001
Site Investigation	1988	Basewide 5-Year Review	2003
Remedial Investigation	1995	Long Term Operation/Long Term Monitoring	2049+
Feasibility Study	1997		
Proposed Plan	1998		
Record of Decision	1998		
Remedial Design	1998–1999		

### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$6,008,000	-	-
Design & Construction	\$18,484,948	\$5,311,663	\$3,250,000
Operation & Maintenance	\$6,583,415	\$675,979	\$79,823,700
Monitoring*	\$365,857	-	-

\*Not tracked separately from O&M prior to 1997.

(IRP Sites: FT009, FT081, LF001, LF003, OT014, WP002, WP080)

June 2001

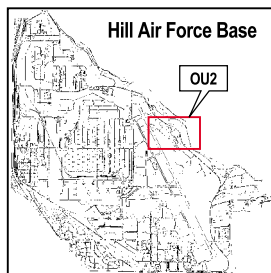


Soil: Not applicable  
Ground water: 10,774,120 gallons

Soil: Not applicable  
Ground water: 55 pounds

## Cleanup System Photographs





## Operable Unit 2

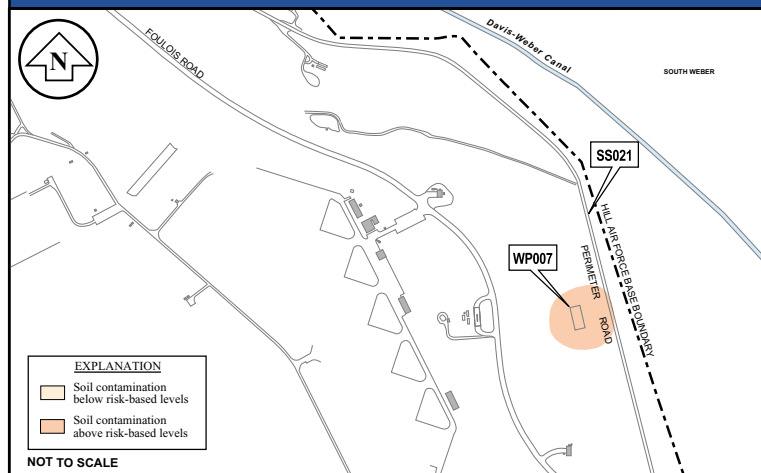
(IRP Sites: SS021, WP007)

Program Manager: Jeffrey Watkins



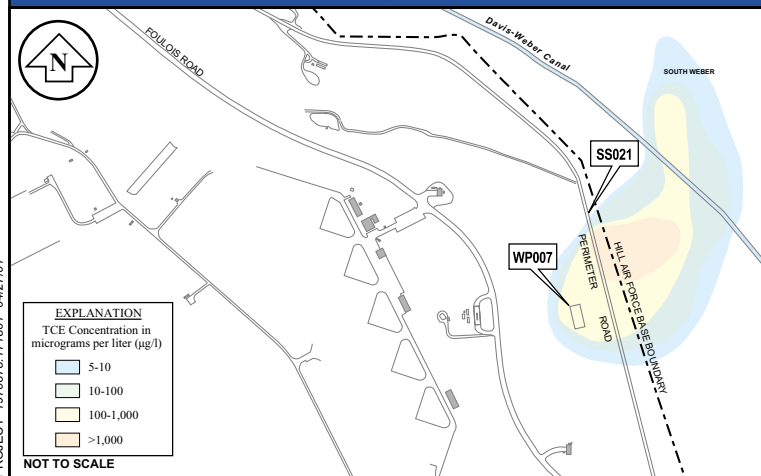
### Contaminants of Concern — Soil

TCE, PCE, DCE, TCA



### Contaminants of Concern — Ground Water

TCE, PCE, DCE, TCA



### Project Information Highlights

#### Site Summary

**SS021:** Perimeter Road — No known disposal activities. NFRAP site.

**WP007:** Chemical Disposal Pit 3 — Active 1940's–1975; electroplating wastes, IWTP sludge, waste solvents, phenols, petroleum products (oils and fuels).

- Operations since 1940's included disposal of waste products in one on-base pit area.
- Both sites are NPL although SS021 has been removed from Federal Facilities Agreement.
- Soil and ground water are impacted.
- Interim actions began in 1987 and continue as part of final actions (seep/spring collection/treatment, source [DNAPL] recovery system).
- DOD-funded technology demonstration site since 1996.
- Additional technology demonstrations performed in 1998–1999, including steam flood, foam flood, and cometabolic propane addition.
- Additional DNAPL delineation completed in 1998.
- Full scale surfactant flood for DNAPL removal conducted 1999–2000.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1982	Remedial Action	2001
Site Investigation	1986, 1990	Basewide 5-Year Review	2003
Interim Remedial Actions	1986–1996	Long Term Operation/Long Term Monitoring	2049+
Remedial Investigation	1994		
Feasibility Study	1994		
Proposed Plan	1994		
Record of Decision	1996		
Remedial Design	1996		
Remedial Action	1996–1997		
Construction			
Long Term Operation	1998–Present		
Long Term Monitoring			

### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$4,516,000	-	-
Design & Construction	\$19,680,255	\$1,575,000	\$850,000
Operation & Maintenance	\$4,287,248	\$1,246,133	\$59,721,900
Monitoring*	\$75,000	-	-

\*Not tracked separately from O&M prior to 1997.

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Treatment to Date	Survival	Quality of Life	Cost
Standard of Care	50%	Low	Low
Experimental Treatment	60%	High	High

Soil: Not applicable  
Ground water: 18,639,000 gallons

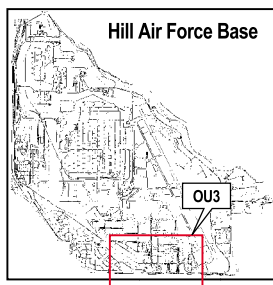
### Contaminant Removal to Date

Soil: Not applicable  
Ground water: 5,724 pounds

## Cleanup System Photographs



**Not Applicable**



## Operable Unit 3

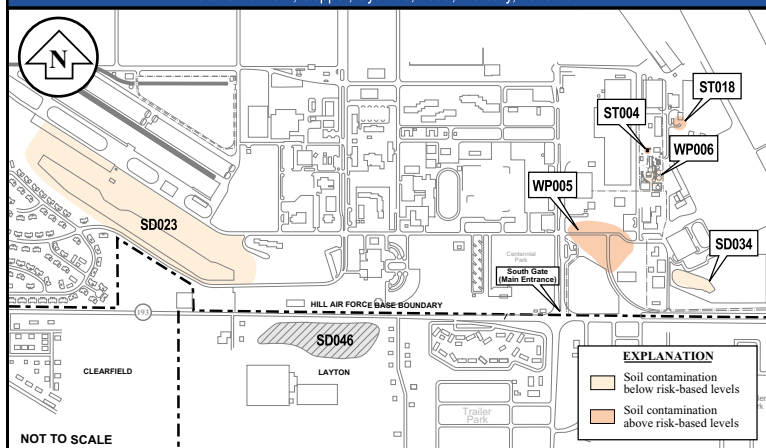
(IRP Sites: SD023, SD034, SD046, ST004, ST018, WP005, WP006)

Program Manager: Jeffrey Watkins



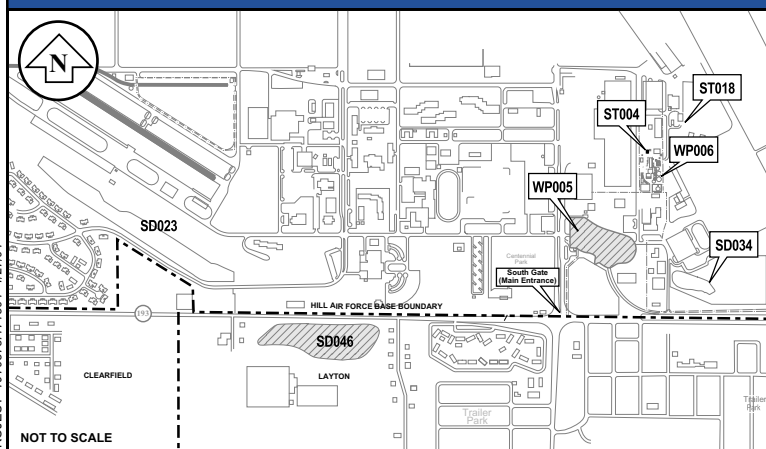
### Contaminants of Concern — Soil

Benzo(a)pyrene, Bis(2-ethylhexyl) phthalate, Chlorobenzene, Dichlorobenzene, Dichlorobenzene, DCE, PCB, PCE, Toluene, Arsenic, Barium, Cadmium, Total Chromium, Copper, Cyanide, Lead, Mercury, Vanadium



### Contaminants of Concern — Ground Water

None (See Operable Unit 8)



### Project Information Highlights

#### Site Summary

**SD023:** Pond 3 — Active 1957–Present; receives stormwater from industrial areas of base. NFRAP site.

**SD034:** Pond 1 — Active 1942–Present; received industrial wastewater up to 1956 and stormwater through present. NFRAP site. Recent investigation indicates presence of contamination around pond inlet structure, being addressed under OU 9.

**SD046:** Pond 2 — Active 1942–1974; received stormwater only. NFRAP site.

**ST004:** Sodium Hydroxide Tanks — Active in 1980's; stored 25% (by weight) sodium hydroxide solution. Leaks were detected in 1984 and tank was removed and replaced. Cap in place under LTM.

**ST018:** Buildings 511 and 514 — Active 1950's–1985; refueling and vehicle maintenance facility; stored/used diesel, gasoline, and possible purge oil and solvents. Remediation completed 1999. NFRAP Site. Building 574 RVMF closeout report in progress.

**WP005:** Berman Pond — Active 1940–1956; received industrial wastewater and stormwater up to 1956. Cap in place under LTM.

**WP006:** IWTP Sludge Drying Beds — Active 1956–1982; beds were unlined and received IWTP sludge materials for temporary storage. NFRAP site.

- Six of the seven sites are NPL and are included in the Federal Facilities Agreement; SD046 was sold by Hill AFB to a private entity in 1992.
- Interim actions implemented in 1984, 1993 and 1995 (capping, vapor extraction, dewatering) and are incorporated into final actions.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1982, 1990, 1991	Basewide 5-Year Review	2003
Interim Remedial Actions	1984–1997	Long Term Operation/Long Term Monitoring	2049+
Site Investigation	1986, 1990, 1991		
Remedial Investigation	1992, 1995		
Feasibility Study	1992–1995		
Proposed Plan	1992, 1995		
Record of Decision	1992, 1995		
Remedial Design	1993, 1997		
Interim Remedial Action	1993		
Remedial Action	1997–1998		

### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$5,787,000	-	\$658,000
Design & Construction	\$6,654,668	-	\$1,600,000
Operation & Maintenance	\$816,823	-	-
Monitoring	\$111,429	\$75,027	\$6,262,000



(IRP Sites: SD023, SD034, SD046, ST004, ST018, WP005, WP006)

June 2001

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## Treatment to Date

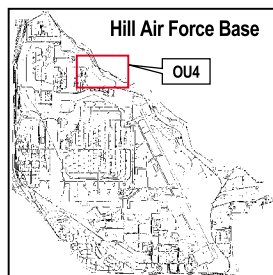
Soil: Not applicable  
Ground water: 768,249 gallons

### Contaminant Removal to Date

Soil: Not applicable  
Ground water: Not applicable

## Cleanup System Photographs





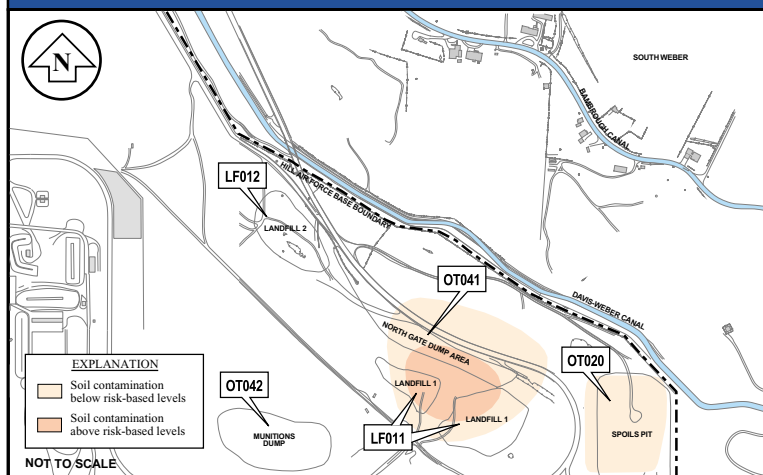
## Operable Unit 4

(IRP Sites: LF011, LF012, OT020, OT041, OT042)  
Program Manager: Jeffrey Watkins



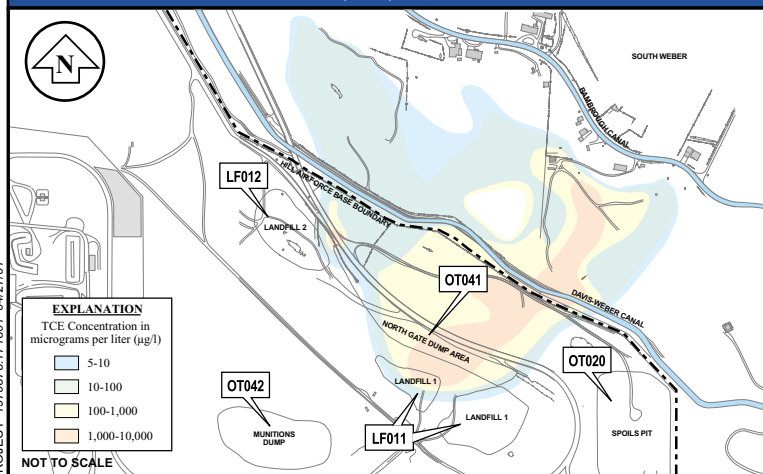
### Contaminants of Concern — Soil

TCE



### Contaminants of Concern — Ground Water

TCE, DCE, Benzene



### Project Information Highlights

#### Site Summary

**LF011:** Landfill 1 — Operated 1955–1967; solid wastes (burned daily), possibly waste oils and solvents.

**LF012:** Landfill 2 — Operated 1963–1965; solid wastes (burned periodically). NFRAP site.

**OT020:** Spoils Pit — Operated 1972–1989; construction debris. NFRAP site.

**OT041:** North Gate Dump; no known disposal activities. NFRAP site.

**OT042:** Munitions Dump; no known disposal activities. NFRAP site.

- All sites are NPL and are included in the Federal Facilities Agreement.
- Soil and ground water are impacted.
- DOD-funded technology demonstration site from 1996-1997.
- Interim action operated 1993–1997 as technology demonstration (horizontal wells) and has been incorporated into Phase II final actions.
- Implementation of trench ground-water extraction system (Phase III) delayed pending resolution of Off-Base land ownership issues.

### Milestones

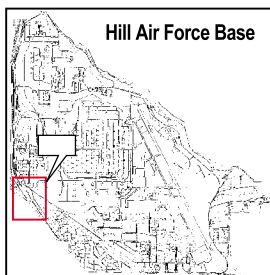
PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1982, 1990	Remedial Action	2001 (Phase III)
Site Investigation	1988, 1990, 1993	Basewide 5-Year Review	2003
Remedial Investigation	1993	Long Term Operation/Long Term Monitoring	2049+
Feasibility Study	1993		
Proposed Plan	1993		
Interim Remedial Actions	1997		
Record of Decision	1994		
Remedial Design	1999		
Remedial Action	1996–1997 (Phase I & II)		

### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$4,652,000	-	-
Design & Construction	\$3,246,000	-	-
Operation & Maintenance	\$2,923,650	\$326,546	\$8,890,500
Monitoring	-	-	-







# Operable Unit 5

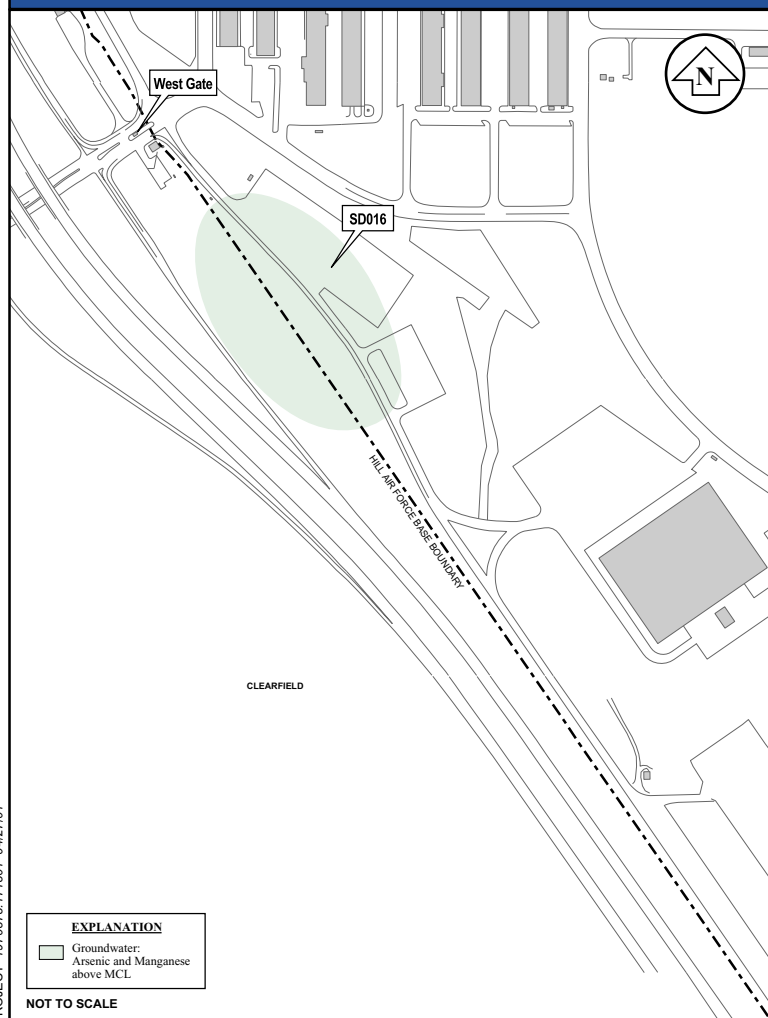
(IRP Site: SD016)

Program Manager: Steve Hicken



## Contaminants of Concern

Ground Water: Arsenic, Manganese  
Soil: No contaminants above risk-based action levels



## Project Information Highlights

### Site Summary

**SD016:** Bamberger Pond — Active from 1940's—early 1990's; received and stored stormwater and discharged off-base until early 1990's.

- Surface pond 100' x 800' consisting of two unlined basins.
- Study shows elevated levels of manganese and arsenic. Organics from leaves change redox conditions, resulting in desorption of the naturally occurring manganese and arsenic from soils.
- Regulatory approval of NFRAP Document September 2000.

## Milestones

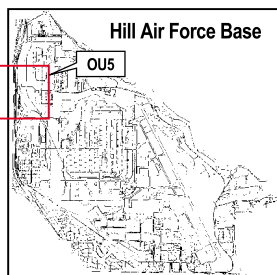
PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1982	Basewide 5-Year Review	2003
Site Investigation	1988		
Remedial Investigation	1994 – Present		

## Funding

	Historical** (thru FY90)	FY00	FY01 - Completion
Study	\$5,471,923	\$51,441	-
Design & Construction	\$3,488,077	-	-
Operation & Maintenance	\$360,408	-	-
Monitoring*	\$226,000	-	-

\*Not tracked separately from O&M prior to 1997.  
\*\*Total Operable Unit 5 funding





## Operable Unit 5

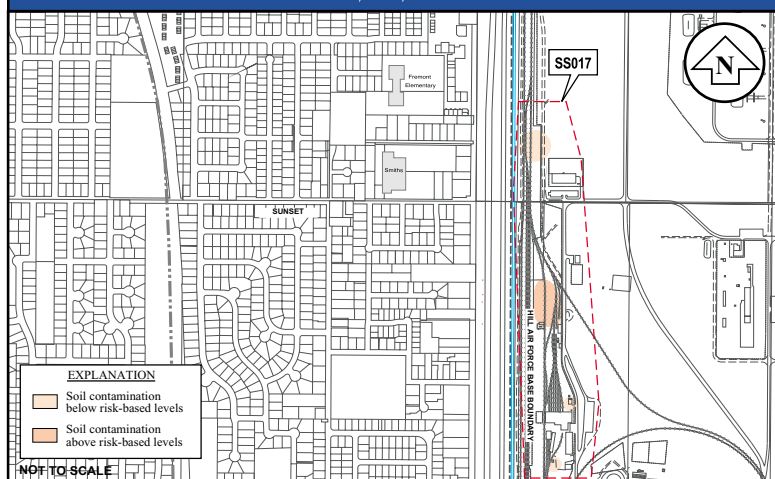
(IRP Site: SS017, SS091)

Program Managers: Steve Hicken (Investigation) Jeffrey Watkins (Operations)



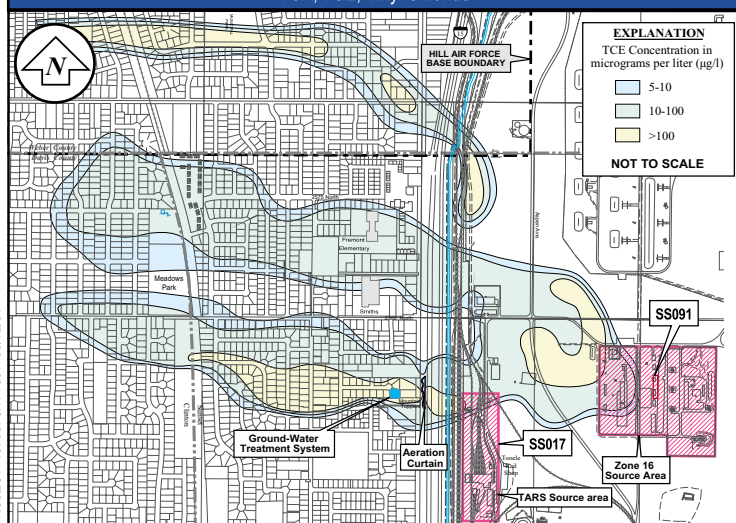
### Contaminants of Concern — Soil

Lead, TPH, Arsenic



### Contaminants of Concern — Ground Water

TCA, TCE, Vinyl Chloride



### Project Information Highlights

#### Site Summary

**SS017:** Tooele Army Rail Shop — Active 1941–Present; petroleum products, waste solvents, plating solutions, potentially chloroform.

- Is an NPL site and is included in the Federal Facilities Agreement.
- Soil and ground water are impacted.
- Interim Actions installed during 1996–1997 and continue at present (soil management unit, ground-water aeration curtain, and extraction wells).

**SS091:** Building 1607 — Active from 1956–1976; operations at SS091 (Building 1607) included disposal of waste solvents and miscellaneous liquids in an evaporation pond.

- Site is on NPL but has not yet been included in the Federal Facilities Agreement.
- Evidence of soil contamination has not been found.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1996	Remedial Investigation	2001
Site Investigation	1988	Feasibility Study	2002
Interim Remedial Actions	1996	Proposed Plan	2002
		Record of Decision	2003
		Basewide 5-Year Review	2003
		Remedial Design	
		Remedial Action	2004
		Long Term Operation/Long Term Monitoring	2005

### Funding

	Historical** (thru FY99)	FY00	FY01 - Completion
Study	\$6,623,766	\$1,528,753	\$5,248,000
Design & Construction	\$3,748,079	-	\$6179,000
Operation & Maintenance	\$896,213	\$350,669	\$47,453,000
Monitoring*	\$226,000	-	\$1,925,000

\*Not tracked separately from O&M prior to 1997.

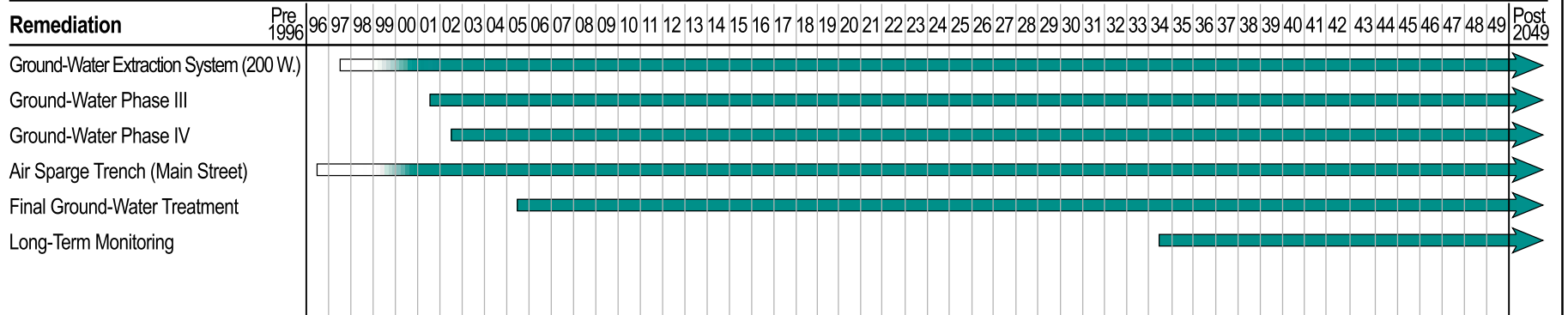
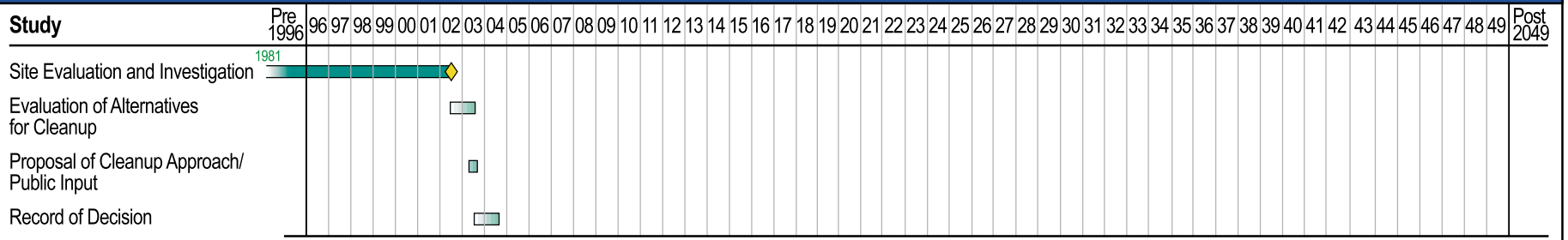
\*\*Total Operable Unit 5 funding

# Operable Unit 5

(IRP Sites: SS017, SS091)

Program Managers: Steve Hicken (Investigation) Jeffrey Watkins (Operations)

## Project Information Highlights



## Cleanup Progress

### Treatment to Date

Soil: Not applicable  
Ground water: 6,377,470 gallons

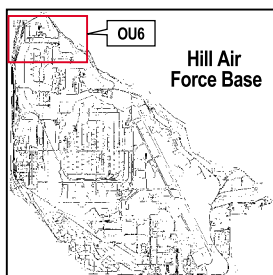
### Contaminant Removal to Date

Soil: Not applicable  
Ground water: 10 pounds

## Cleanup System Photographs



Not Applicable



# Operable Unit 6

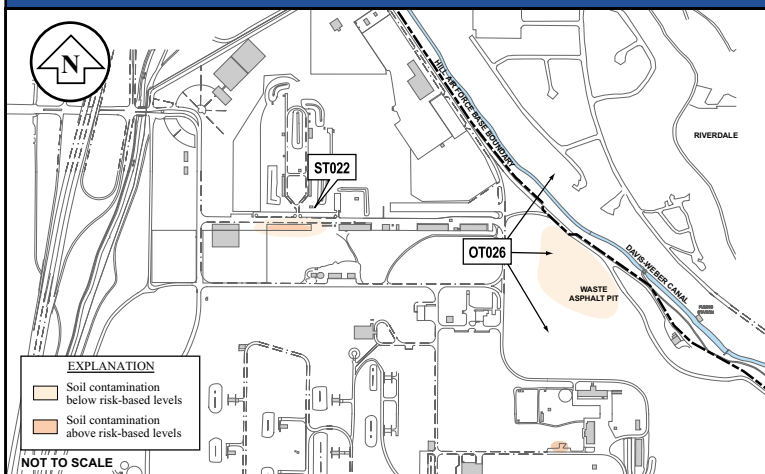
(IRP Sites: ST022, OT026)

Program Manager: Jeffrey Watkins



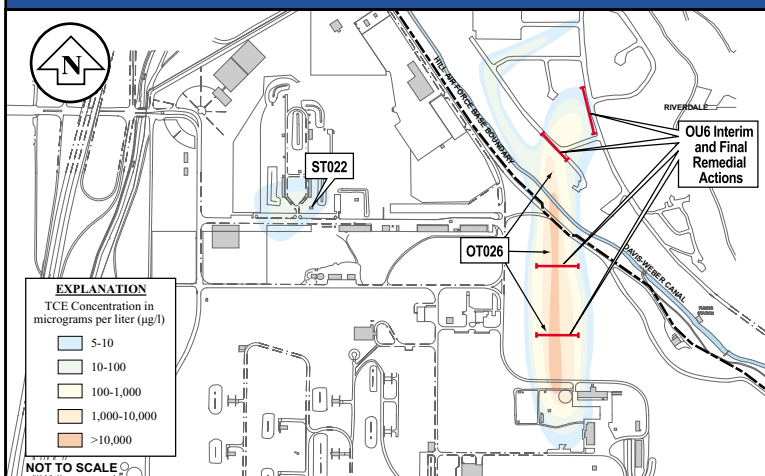
## Contaminants of Concern — Soil

DCE



## Contaminants of Concern — Ground Water

TCE



## Project Information Highlights

### Site Summary

**ST022:** Building 1915 — Active 1959–1985; fuel and waste sludge storage and a suspected leach field.

**OT026:** 2000 (Asphalt Pad) Area — Active 1940's–Present; construction debris (past and present) and suspected past disposal of industrial wastewater and waste solvents.

- Operations included storage and disposal of fuel and waste products in tanks, a sump, and dumps.
- Both sites are NPL and included in the Federal Facilities Agreement.
- Interim actions began in 1993 and continue (alternate irrigation water sources, seep/spring water and ground-water recovery and treatment, alternative ground-water treatment technology evaluations). These actions have been incorporated as part of the final actions.
- Record of Decision signed 1997.
- Remedial actions On -Base were completed in 1999 (ground-water extraction) and are under long-term operation and maintenance.

## Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1989, 1990	Long Term Operation/ Long Term Monitoring	1999–2032+
Site Investigation	1992	Basewide 5-Year Review	2003
Remedial Investigation	1995		
Feasibility Study	1996		
Proposed Plan	1996		
Interim Remedial Action	1996–Present		
Record of Decision	1997		
Remedial Design	1998		
Remedial Action	1999		

## Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$3,803,000	-	-
Design & Construction	\$3,271,244	-	-
Operation & Maintenance	\$1,819,573	\$557,140	\$5,009,000
Monitoring*	\$51,000	-	\$675,000

\*Not tracked separately from O&M prior to 1997.



(IRP Sites: ST022, OT026)

June 2001

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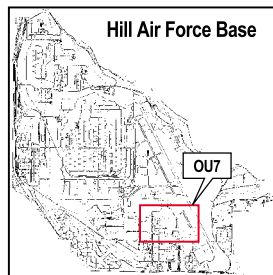
## Treatment to Date

### Contaminant Removal to Date

Soil: Not applicable

Ground water: 12 pounds





## Operable Unit 7

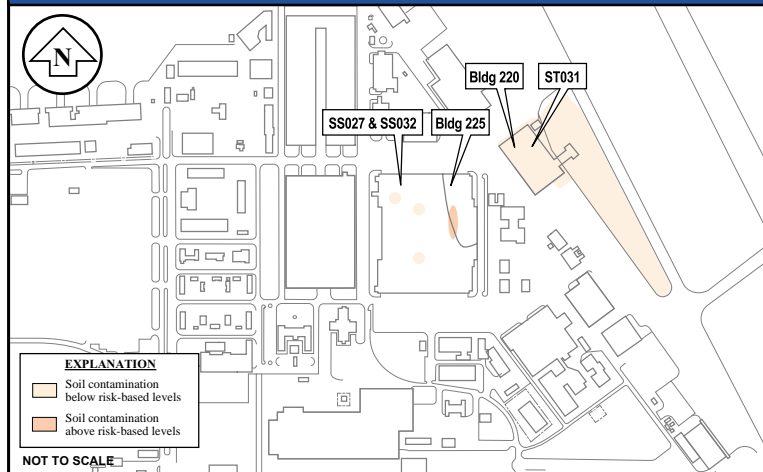
(IRP Sites: SS027, ST031, SS032)

Program Manager: Jeffrey Watkins



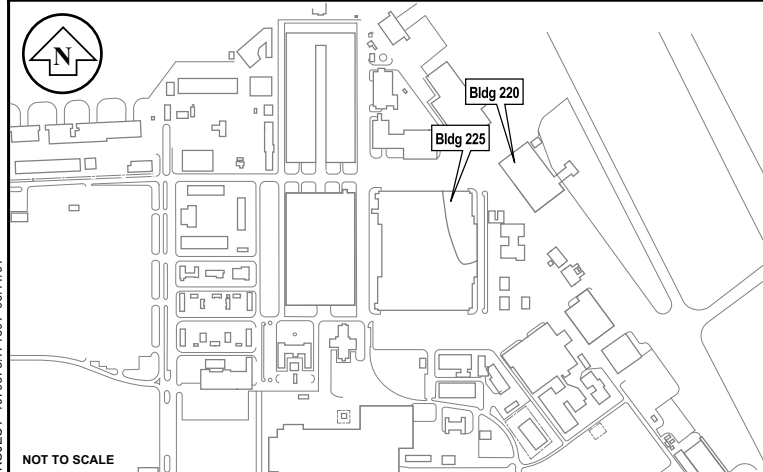
### Contaminants of Concern — Soil

Hexavalent and Total Chromium



### Contaminants of Concern — Ground Water

None (See Operable Unit 8)



### Project Information Highlights

#### Site Summary

**SS027:** Building 225 (chromium spill) — Active 1940's–Present; use of electroplating and etching solutions, lacquer, and waste solvents that were discharged to floor drains that leaked.

**ST031:** Building 220 — Active 1940's–Present; industrial wastewater containing paint stripping solutions, solvents, acids, acrylic-base and acid-based paints, and oils that were suspected of being spilled or leaked. NFRAP site.

**SS032:** Building 225 (PCB) — Active 1940's–Present; PCB-containing transformer oil. NFRAP site.

- Operations since 1940's related to materials handling and disposal at two aircraft maintenance facilities.
- Sites are NPL and are included in Federal Facilities Agreement.
- Soil has been impacted.
- Interim action at ST031 completed in 1986 (oil-water separator, UST, and soil removals; capping).
- Final action at SS027 completed in 1997. Under long-term monitoring.

#### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Interim Remedial Actions	1986	Basewide 5-Year Review	2003
Preliminary Assessment	1988, 1989, 1990	Long Term Operation/Long Term Monitoring	2049+
Site Investigation	1988, 1990, 1994		
Remedial Investigation	1995		
Feasibility Study	1995		
Proposed Plan	1995		
Record of Decision	1995		
Remedial Design	1996		
Remedial Action	1997		
Long Term Operations/Long Term Monitoring	1997		

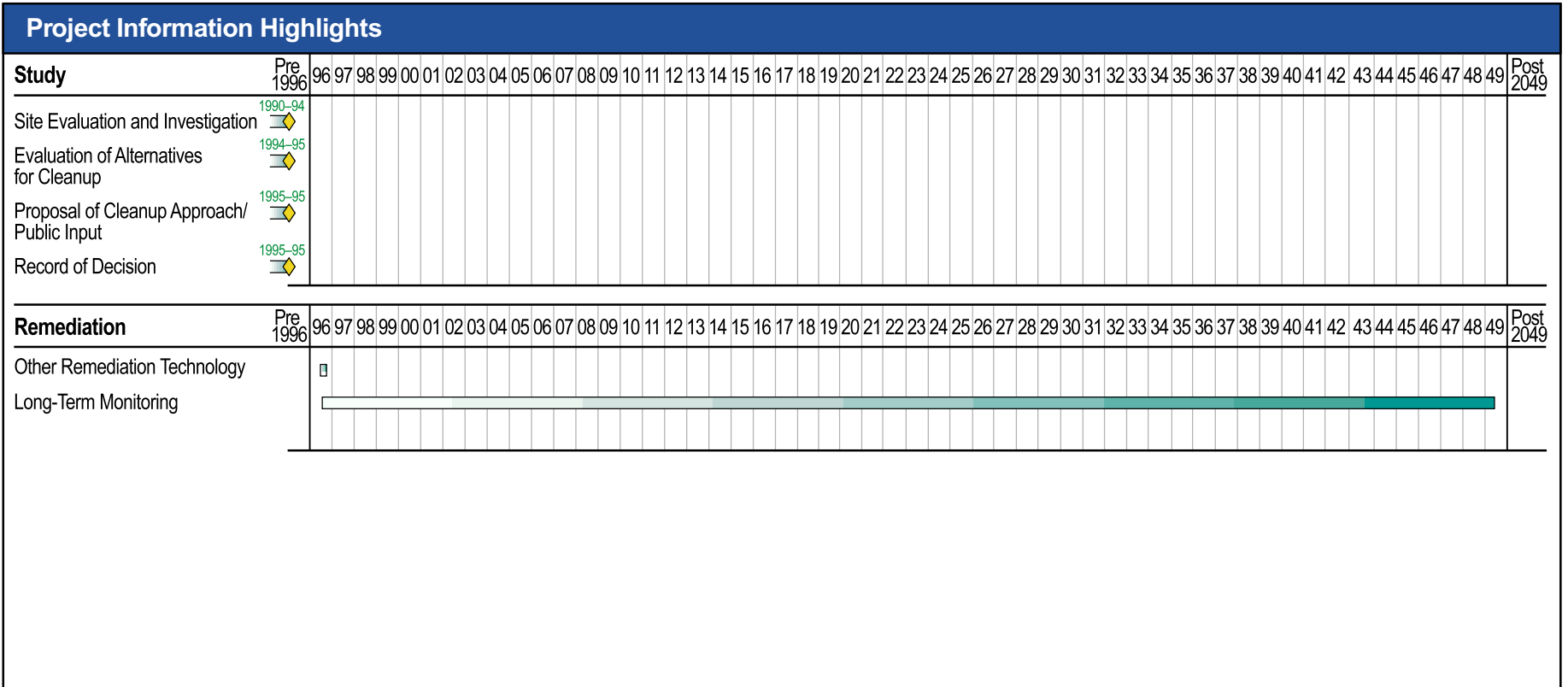
#### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$2,962,000	-	-
Design & Construction	\$275,000	-	-
Operation & Maintenance	-	-	-
Monitoring	\$72,000	\$27,750	\$2,347,000

# Operable Unit 7

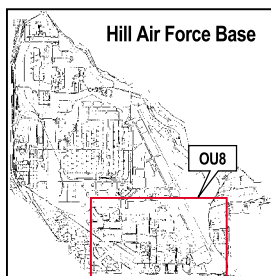
(IRP Sites: SS027, ST031, SS032)

Program Manager: Jeffrey Watkins



Cleanup Progress
<b>Treatment to Date</b> Soil: Not applicable Ground water: Not applicable <b>Contaminant Removal to Date</b> Soil: Not applicable Ground water: Not applicable

Cleanup System Photographs		
Not Applicable	Not Applicable	Not Applicable



## Operable Unit 8

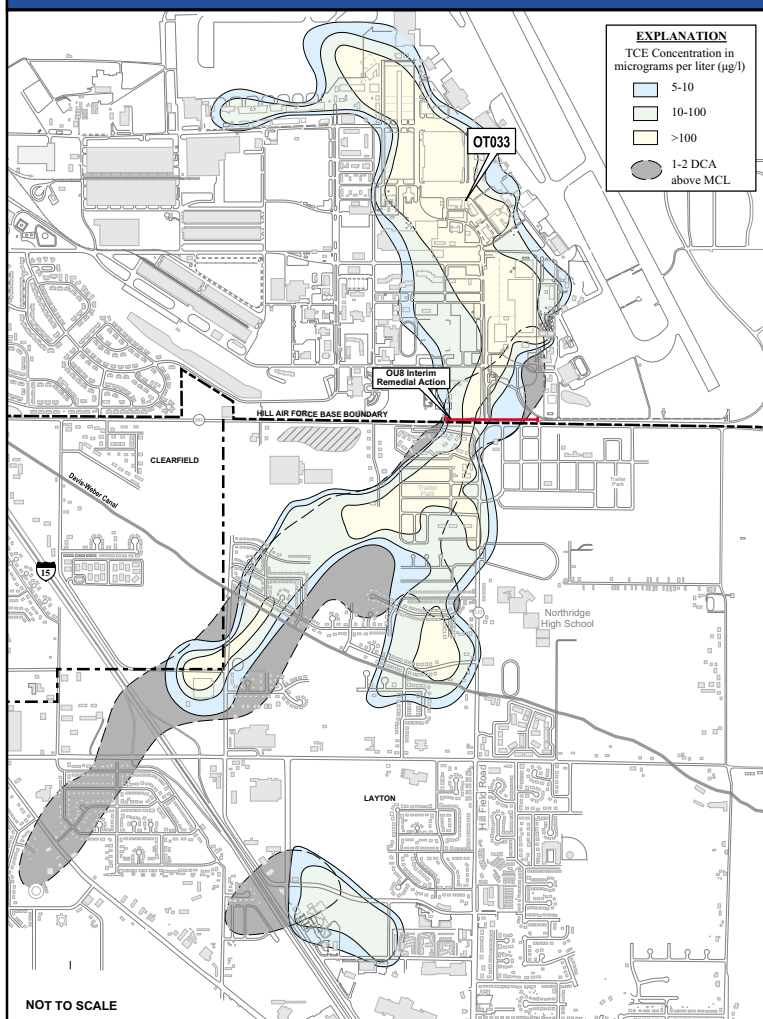
(IRP Site: OT033)

Program Managers: Steve Hicken (Investigation) Jeffrey Watkins (Operations)



### Contaminants of Concern — Ground Water

TCE, PCE, DCE, DCA, TCA  
Hexavalent Chromium



### Project Information Highlights

#### Site Summary

**OT033:** Ground water beneath OU3 and OU7 and in Layton; related to use, storage and disposal of waste solvents and electroplating and etching solutions.

- Industrial operations since 1940's created sources for ground-water contamination.
- Site is entirely ground water, on NPL, and is included in Federal Facilities Agreement.
- Investigations began as part of OU3 and OU7 in 1980's and 1990's.
- Interim action operating in 1997 (hydraulic containment of ground water at base boundary).
- Remedial Investigation (RI) Report to be completed 2001.

### Milestones

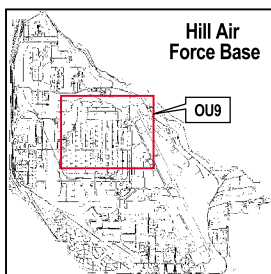
PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1988, 1989, 1990	Remedial Investigation	2001
Site Investigation	1988, 1990, 1994—Present	Feasibility Study	2002
Interim Remedial Actions	1997—Present	Proposed Plan	2002
		Record of Decision	2003
		Remedial Design	2003
		Basewide 5-Year Review	2003
		Remedial Action	2004
		Long Term Operation/Long Term Monitoring	2039+

### Funding

	Historical (thru FY99)	FY00	FY01 - Completion
Study	\$4,374,858	\$1,163,017	\$2,010,000
Design & Construction	\$4,508,382	-	\$2,585,000
Operation & Maintenance	\$334,524	\$252,328	\$19,904,600
Monitoring	-	-	\$1,250,000







## Operable Unit 9

(IRP Sites: SS092, OT093, SS094, SS095, OT106)

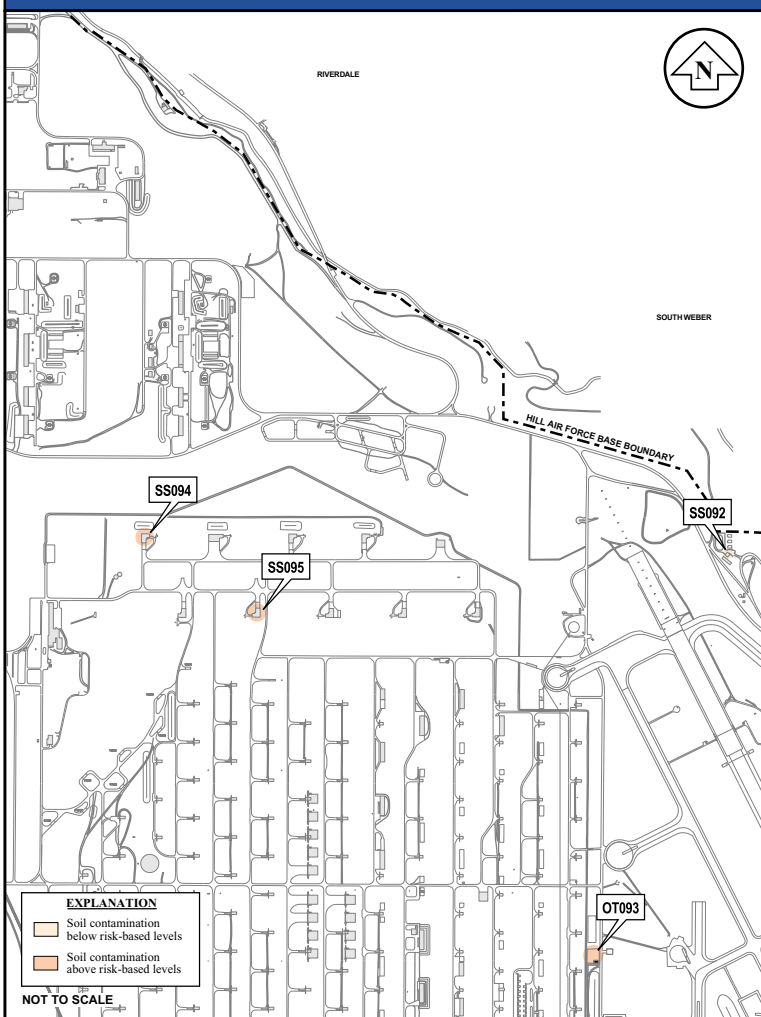
\*See OU6 (IRP Site OT026) for Ground-Water Concerns

Program Manager : Steve Hicken



### Contaminants of Concern — Soil

PCB, Pesticides, Diesel



### Project Information Highlights

#### Site Summary

**SD034:** Pond 1 — Sediment contamination found near inlet in 1999. Investigation reopened under OU9. Originally investigated under OU3.

**SS092:** Building 786 — Active 1984–1997; pesticides in surface soils adjacent to loading/unloading area of a former building.

**SA093:** Transformer Storage Yard — Active 1940's–1997; PCB's from formerly used transformers. Site remediation completed January 1999. NFRAP was documented in 2000.

**SS094:** Building 2402 — Active 1961–Present; PCB's from facility transformer. NFRAP was documented in 2000. Site remediation completed January 1999.

**SS095:** Building 2403 — Active 1961–Present; PCB's from facility transformer. NFRAP was documented in 2000. Site remediation completed January 1999.

- Pesticides and PCB usage and storage operations since the 1940's.
- Sites are neither NPL nor in the Federal Facilities Agreement.
- Investigations began in 1989 at ST022 and in 1995 at remaining sites.
- Surface and near surface soils have been impacted.
- PCB sites were remediated in accordance with the Toxic Substances Control Act.

**OT106:** 100 deferred sites. Investigations to be continued in the future. Currently under institutional control.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Delineation and removal actions	1998	Remedial Investigation	2002
Remedial actions at PCB sites	1998	Feasibility Study	2003
Site Investigations	1989–Present	Basewide 5-Year Review	2003
		Proposed Plan	To be determined
		Record of Decision	To be determined

### Funding

	Historical* (thru FY99)	FY00	FY01 - Completion
Study	-	\$140,661	-
Design & Construction	\$231,388	-	-
Operation & Maintenance	-	-	-
Monitoring	-	-	\$2,695,000

\*Not tracked separately before 1998.

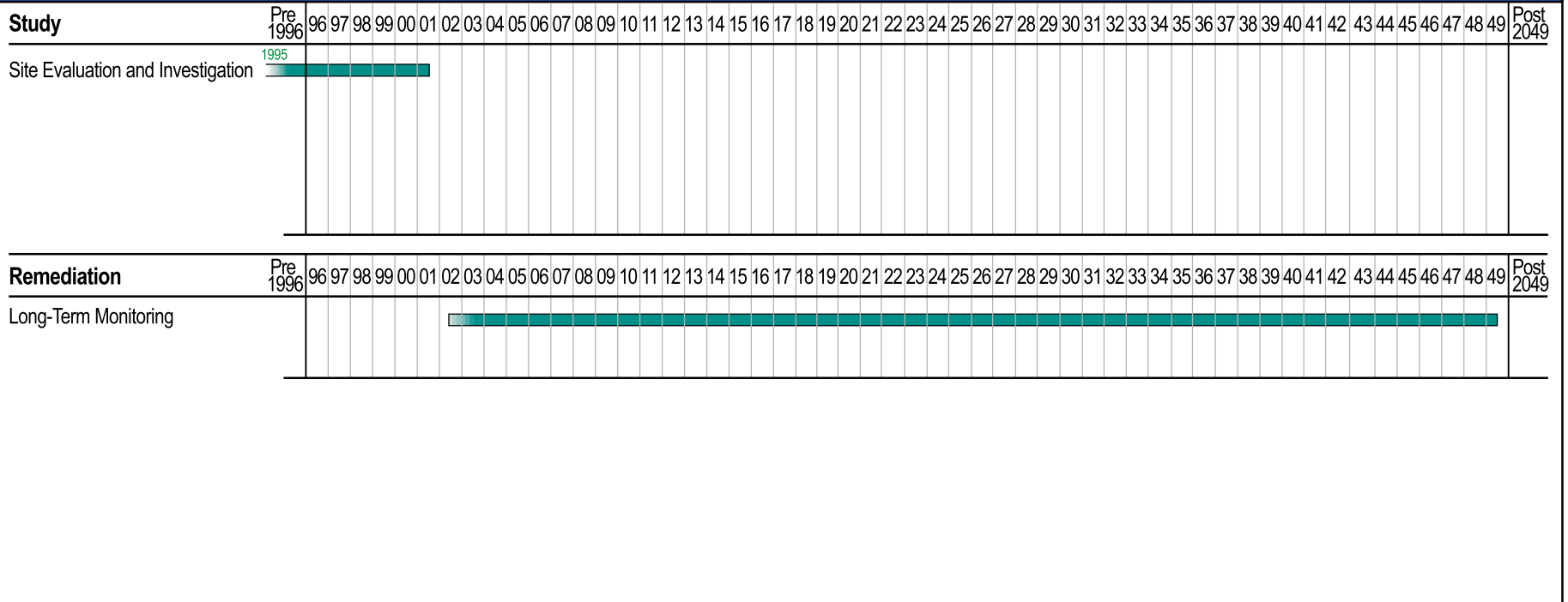
# Operable Unit 9

(IRP Sites: SS092, OT093, SS094, SS095, OT106)

\*See OU6 (IRP Site OT026) for Ground-Water Concerns

Program Manager : Steve Hicken

## Project Information Highlights



## Cleanup Progress

### Treatment to Date

Soil: Not applicable  
Ground water: Not applicable

### Contaminant Removal to Date

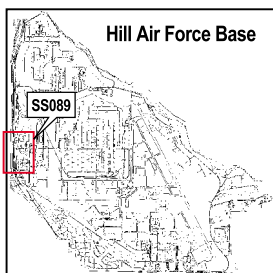
Soil: Not applicable  
Ground water: Not applicable

## Cleanup System Photographs

Not Applicable

Not Applicable

Not Applicable



## Operable Unit 10

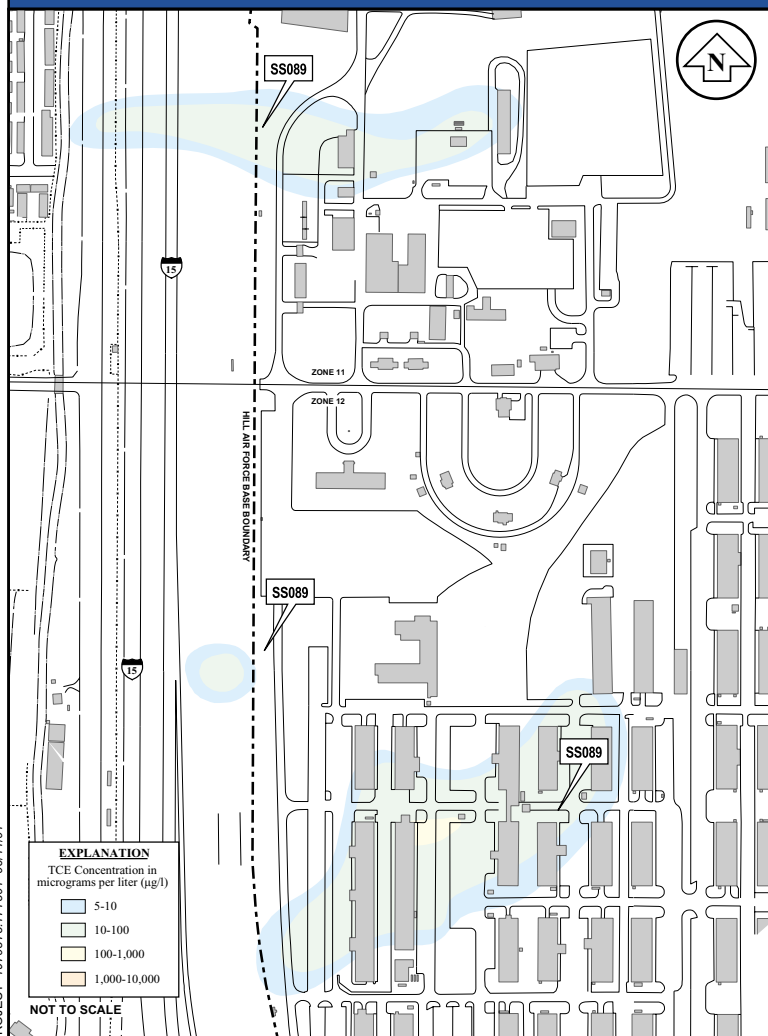
(IRP Sites: SD040 and SS089)

Program Manager: Steve Hicken



### Contaminants of Concern — Ground Water

TCE



### Project Information Highlights

#### Site Summary

**SS089:** Active from 1940's–Present.

- Operations at SS089 (Westgate area) included use and disposal of small quantities of waste solvents via floor drains in Zone 11 and 12 areas of the base.
- Site is on NPL but has not yet been included in the Federal Facilities Agreement.
- Ground water has been impacted in on-base areas and potentially off-base.
- Evidence of soil contamination has not been found.
- Future interim and/or final remedial actions to be determined.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1996	Remedial Investigation	2002
Site Investigation	1997-Present	Feasibility Study	2003
		Basewide 5-Year Review	2003
		Proposed Plan	To be determined
		Record of Decision	To be determined

### Funding

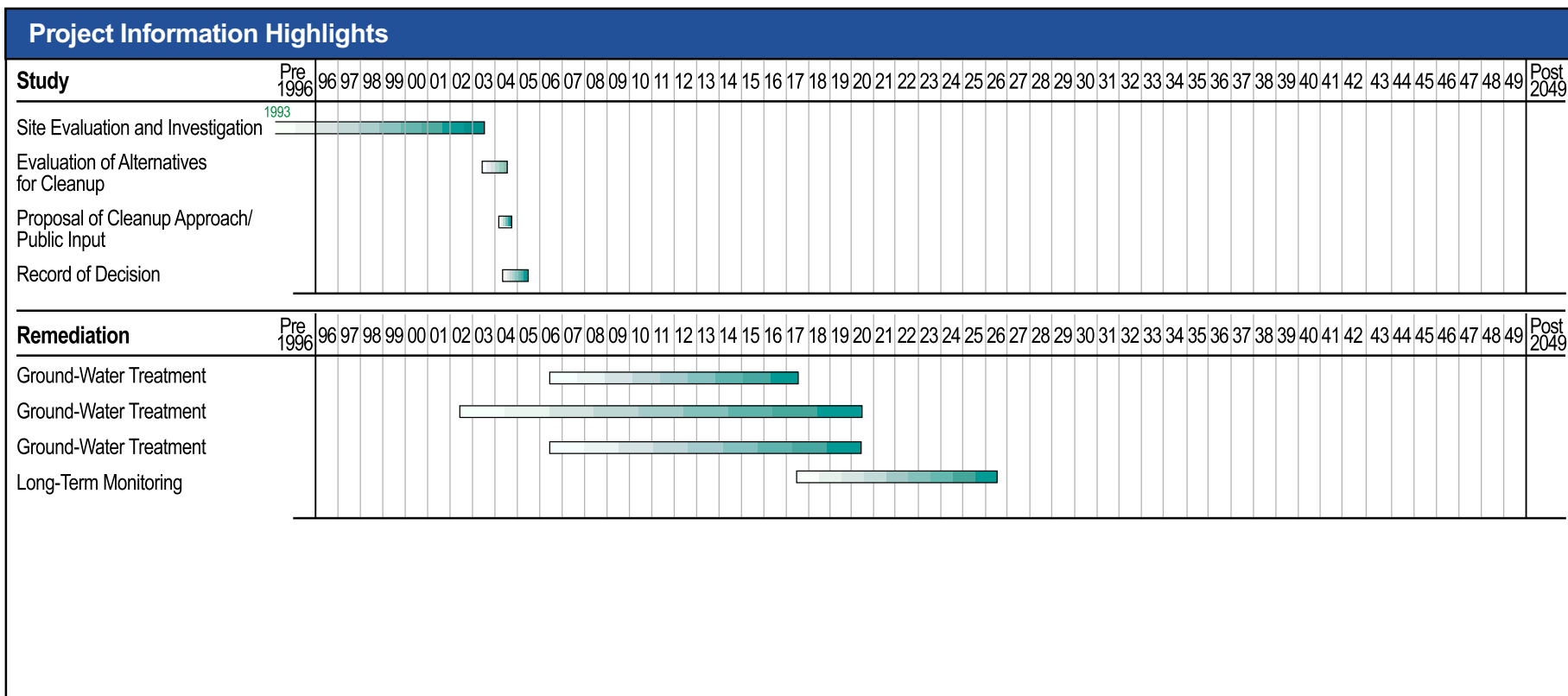
	Historical* (thru FY99)	FY00	FY01 - Completion
Study	\$725,000	\$367,961	\$1,676,900
Design & Construction	\$3,327	-	\$2,712,000
Operation & Maintenance	\$9,469	\$61,608	\$3,224,900
Monitoring	-	-	\$300,000

\*Not tracked separately before 1998.

# Operable Unit 10

(IRP Sites: SD040 and SS089)

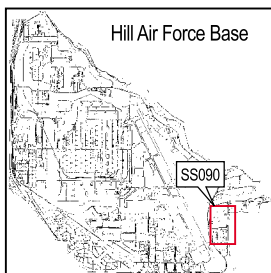
Program Manager: Steve Hicken



Cleanup Progress	Cleanup System Photographs		
<b>Treatment to Date</b> Soil: Not applicable Ground water: Not applicable <b>Contaminant Removal to Date</b> Soil: Not applicable Ground water: Not applicable	Not Applicable	Not Applicable	Not Applicable

PROJECT 1970207, 06/11/01

Figure 2-6K



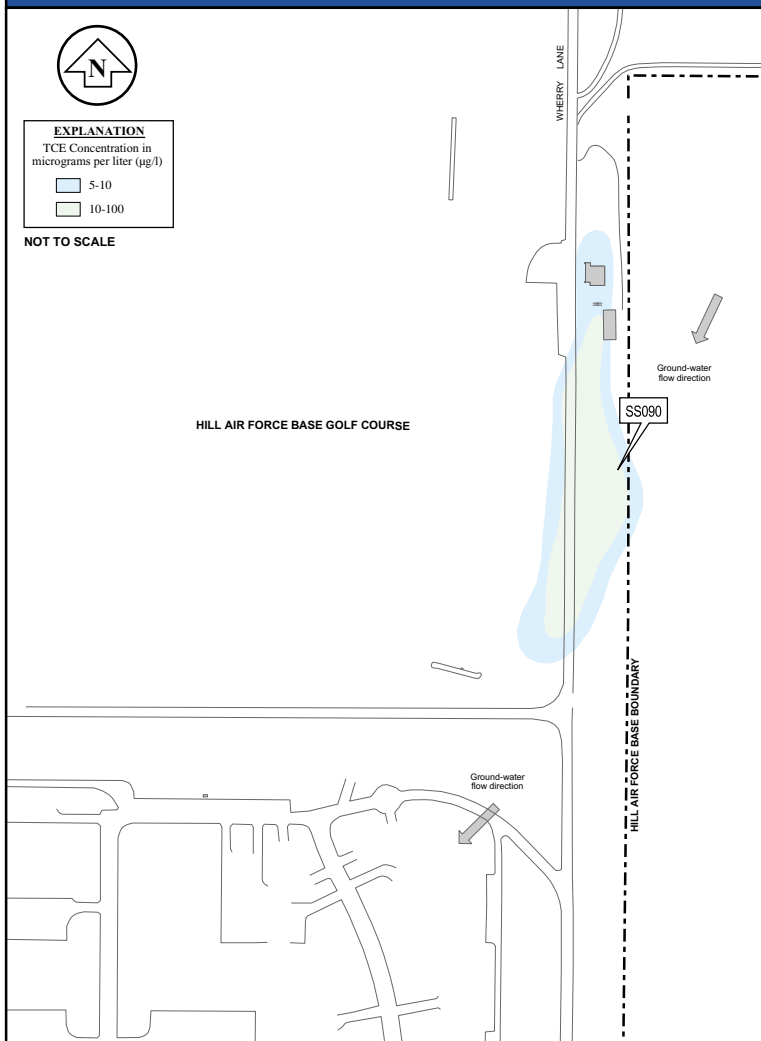
# Operable Unit 11

(IRP Sites: SS090 and OT097)

Program Manager: Steve Hicken



## Contaminants of Concern — Ground Water TCE



## Project Information Highlights

### Site Summary

SS090: Active from 1958 through mid-1980's.

- Operations at SS090 area (Zone 7—Golf Course Area) included use and disposal of small quantities of waste solvents via floor drains and sumps associated with golf cart maintenance.
- Site is on NPL but has not yet been included in the Federal Facilities Agreement.
- Ground water has been impacted in on-base areas only.
- Evidence of soil contamination has not been found.
- Future interim and/or final remedial actions to be determined.

## Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Preliminary Assessment	1996	Remedial Investigation	2002
Site Investigation	1997-Present	Feasibility Study	2003
		Basewide 5-Year Review	2003
		Proposed Plan	To be determined
		Record of Decision	To be determined

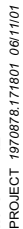
## Funding

	Historical* (thru FY90)	FY00	FY01 - Completion
Study	\$445,000	\$389,693	\$1,217,000
Design & Construction	-	-	\$559,000
Operation & Maintenance	-	-	\$1,203,900
Monitoring	-	-	\$102,000

\*Not tracked separately before 1998.

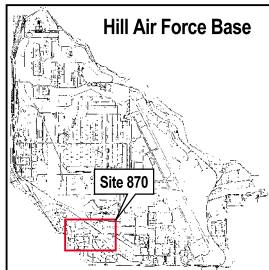


**(IRP Sites: SS090 and OT097)**  
**Program Manager: Steve Hicken**



<p><b>Treatment to Date</b></p> <hr/> <p>Soil: Not applicable</p> <p>Ground water: Not applicable</p> <p><b>Contaminant Removal to Date</b></p> <hr/> <p>Soil: Not applicable</p> <p>Ground water: Not applicable</p>
---

Not Applicable	Not Applicable	Not Applicable
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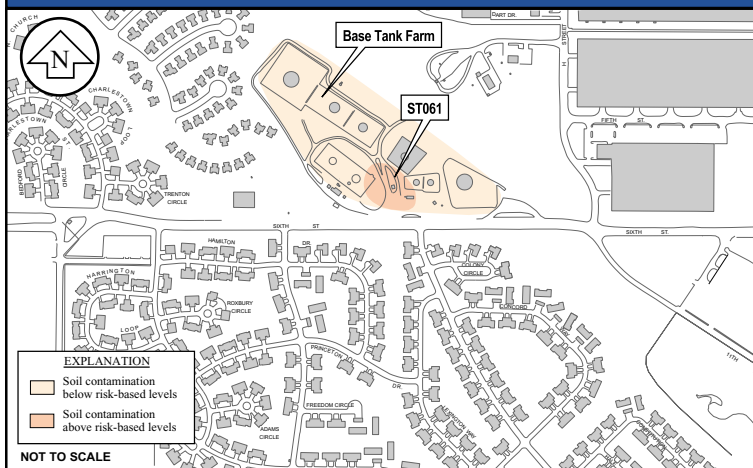
# Site 870

(IRP Site: ST061)

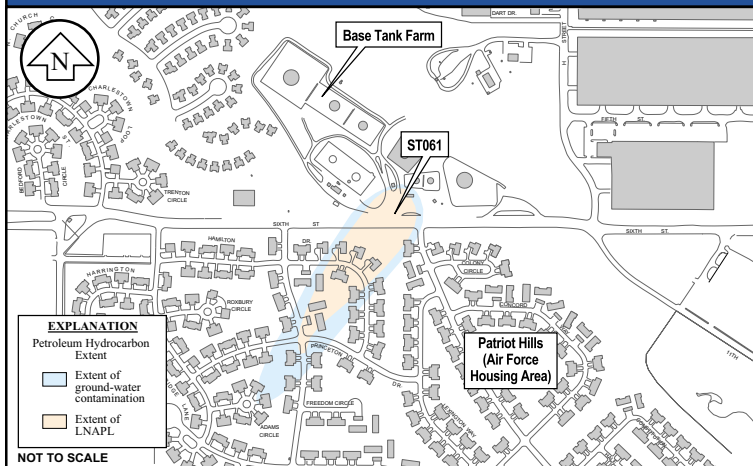
Program Manager: Shannon Hayhurst



## Contaminants of Concern — Soil



## Contaminants of Concern — Ground Water



## Project Information Highlights

### Site Summary

**ST061:** Site 870 — Active 1940's–Present; base tank farm pump house and slop UST.

- Fuel conveyance and storage activities adjacent to base tank farm for over 50 years.
- Site is being addressed under RCRA.
- Potential sources have included a jet fuel slop tank that was in use from 1970–1991, and unknown quantities of abandoned pipe associated with main pump house at the tank farm.
- Jet fuel and diesel have impacted soil and ground water at the site and ground water beneath the adjacent base housing area.
- Remedial actions and technology demonstrations began in 1992 (active and passive jet fuel recovery, bioventing, natural attenuation monitoring, and residential vapor monitoring) of these, the biovent system is still being operated. Natural attenuation monitoring is on-going.

## Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Abatement & Site Characterization	1991	Basewide 5-Year Review	2003
Site Investigation	1994	Long Term Operation/ Monitoring	2025+
Corrective Action Plan	1995	Annual Performance Reviews	
Remedial Action	1993–1997		

## Funding

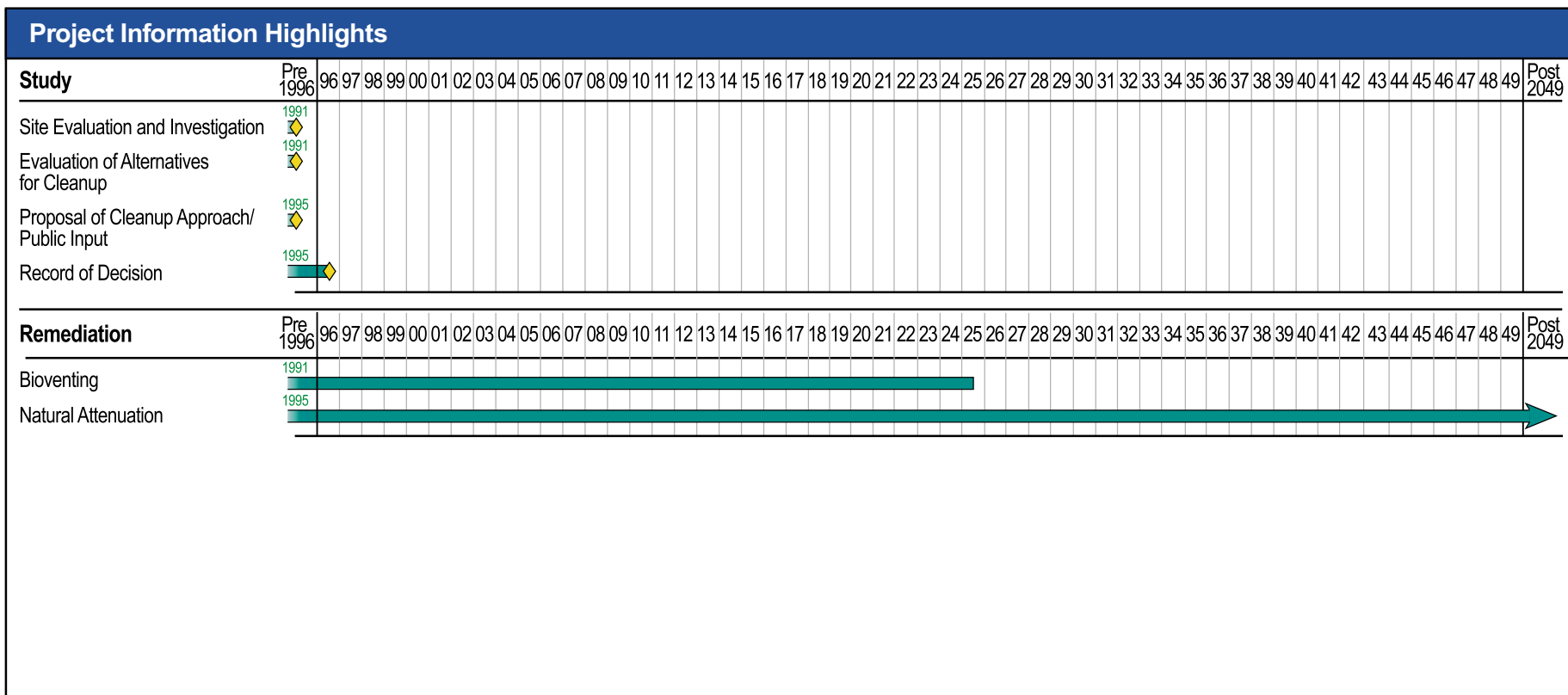
	Historical* (thru FY99)	FY00	FY01 - Completion
Study	\$300,000	-	-
Design & Construction	\$100,000	-	-
Operation & Maintenance	\$375,000	\$37,560	\$995,000
Monitoring	\$44,286	-	-

\*Estimates from total Underground Storage Tank program budget

# Site 870

(IRP Site: ST061)

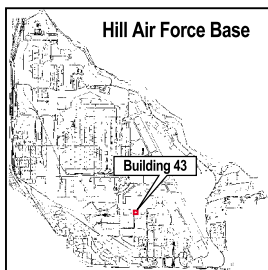
Program Manager: Shannon Hayhurst



Cleanup Progress
<b>Treatment to Date</b> Soil: Not applicable Ground water: Not applicable
<b>Contaminant Removal to Date</b> Soil: Not applicable Ground water: Not applicable

Cleanup System Photographs		
		<p>Not Applicable</p>

PROJECT 1970878.171801 0611101  
Figure 2-6mm



# Building 43

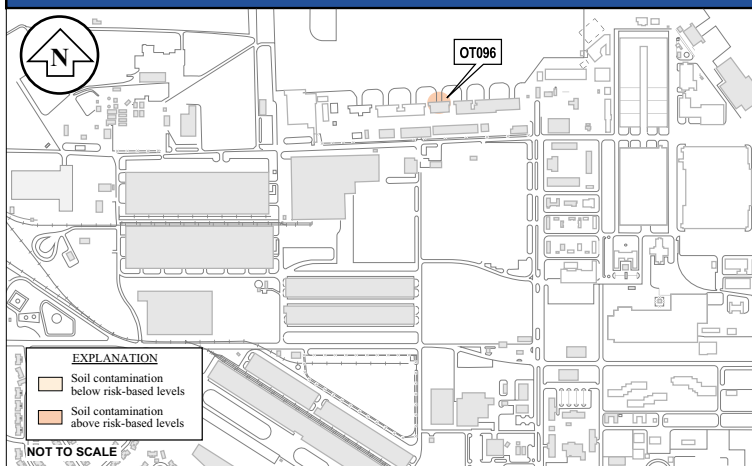
(IRP Site: OT096)

Program Manager: Shannon Hayhurst



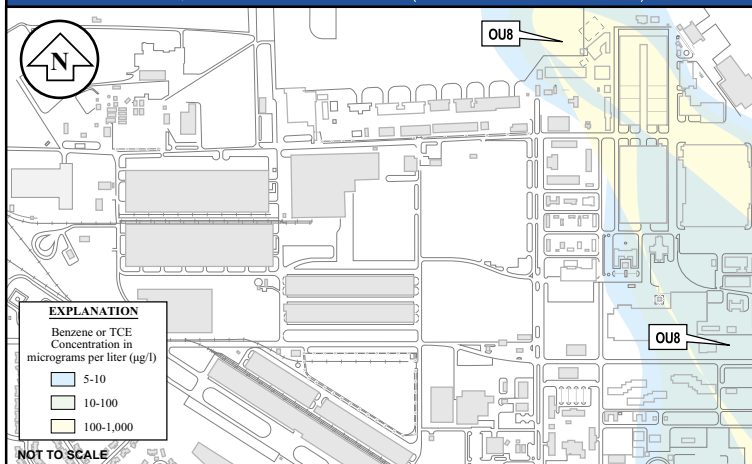
## Contaminants of Concern — Soil

Benzene, Toluene, TPH



## Contaminants of Concern — Ground Water

Benzene, Toluene at OT097 and ST071 (Chlorinated solvents at OT097)



## Project Information Highlights

### Site Summary

**OT096:** Building 43 —Oil water separator active 1957–1999. Bioventing system installed in 1999 and currently active.

- Investigations began in 1995 for OT096.

## Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Investigations	1985-Present	ST071	To be determined
OT097-DD	Feb 1998	Basewide 5-Year Review	2003

## Funding

	Historical* (thru FY99)	FY00	FY01 - Completion
Study	-	-	-
Design & Construction	\$152,000	-	-
Operation & Maintenance	\$79,763	\$23,498	\$400,000
Monitoring	\$50,929	-	-

\*Not tracked separately before 1998.

(IRP Site: OT096)

June 2001

[illegible]

Treatment to Date	Median Overall Survival (months)	95% CI	P-Value
Docetaxel + Enzalutamide	20.1	18.1-22.1	0.0001
Docetaxel + Placebo	16.5	14.5-18.5	

### Contaminant Removal to Date

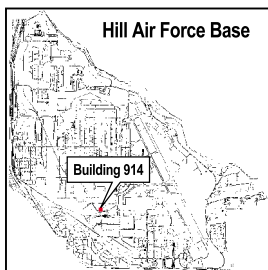
**Figure 2-6nm**

## A small, dark-colored outdoor kitchen unit, possibly a grill or a small stove, is mounted on a stand against a light-colored wall. It has a flat top surface and a single burner visible on the right side. The unit is positioned next to a wall with some electrical wiring and a small window or vent.



**Not Applicable**





# Building 914

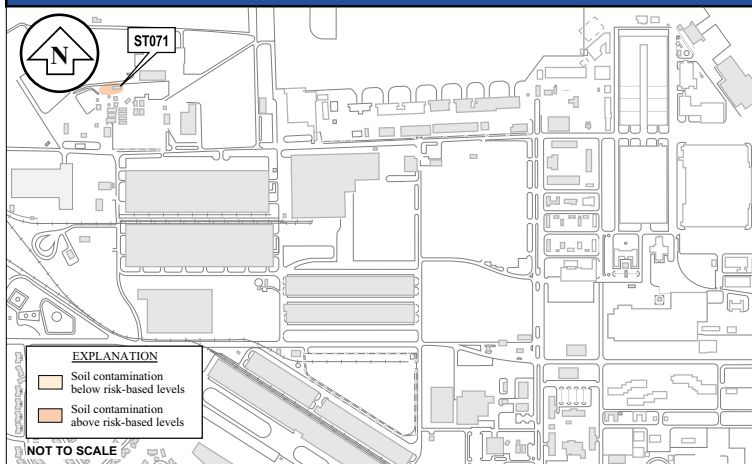
(IRP Site: ST071)

Program Manager: Shannon Hayhurst



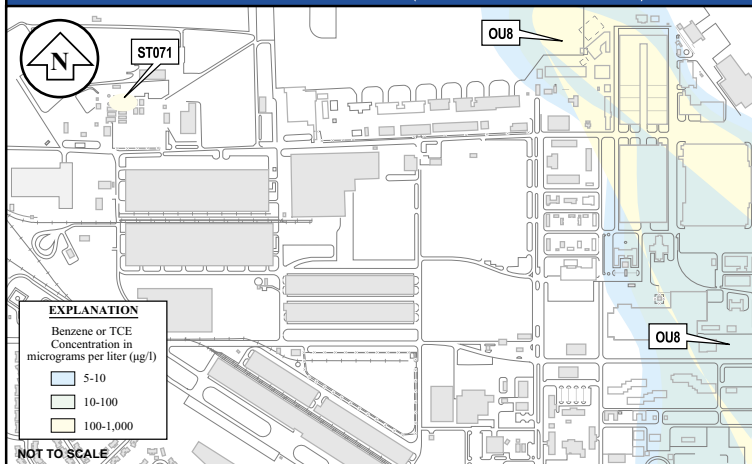
## Contaminants of Concern — Soil

Benzene, Toluene, TPH



## Contaminants of Concern — Ground Water

Benzene, Toluene at OT097 and ST071 (Chlorinated solvents at OT097)



## Project Information Highlights

### Site Summary

**ST071:** Building 914 — Active 1942–Present; jet fuel transfer facility and slop tank.

- Investigations began in 1985 at ST071.
- Soil is impacted at all sites while perched ground water is impacted at ST071.
- Since 1985 bioventing, dual phase extraction, ground-water recovery, and SVE have been utilized. SVE is currently Operating.

## Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Investigations	1985-Present	ST071	To be determined
ST071-DD	July 1994	Basewide 5-Year Review	2003

## Funding

	Historical* (thru FY99)	FY00	FY01 - Completion
Study	-	-	-
Design & Construction	\$152,000	-	-
Operation & Maintenance	\$79,763	\$18,780	\$400,000
Monitoring	\$50,929	-	-

\*Not tracked separately before 1998.

(IRP Site: ST071)

**Program Manager: Shannon Hayhurst**

[illegible]

Treatment to Date	Survival	Quality of Life	Cost
Standard of Care	50%	Low	Low
Experimental Treatment	60%	High	High

Contaminant Removal to Date

## Soil: 64 pounds

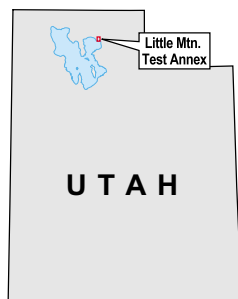
Ground water: Not applicable

Not Applicable

Not Applicable

Figure 2-6a

PROJECT 1970878.171801 06/11/01



# Little Mountain Test Annex

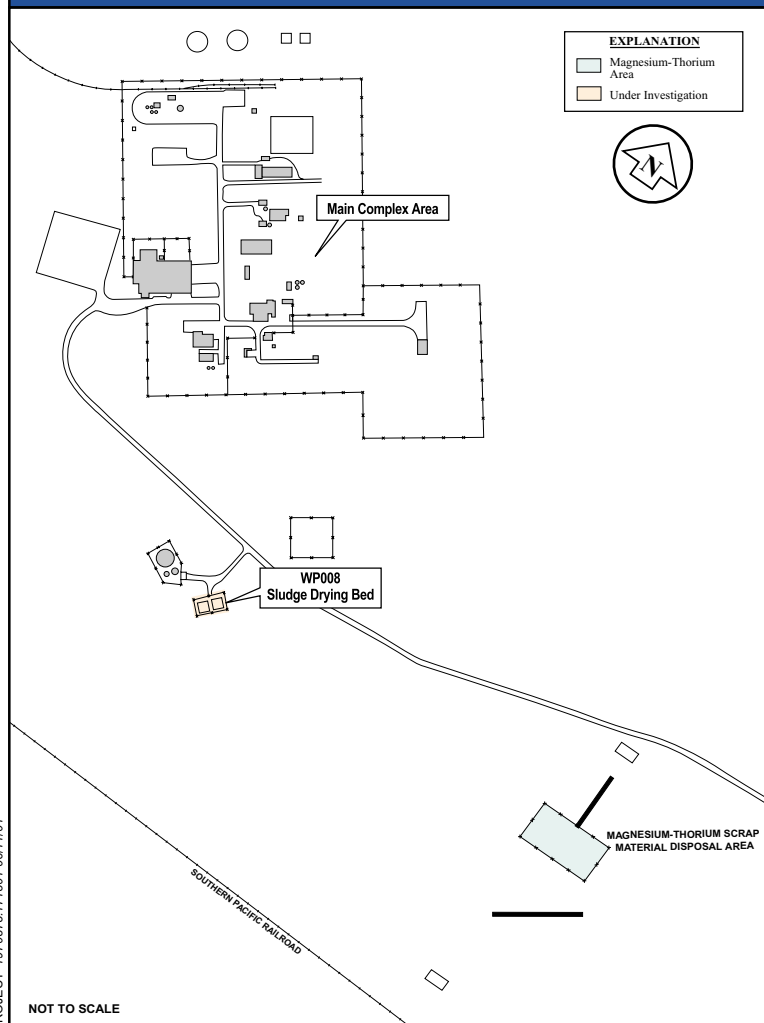
(IRP Site: WP008)

Program Manager: Steve Hicken



## Contaminants of Concern — Soil

Metals, Phenol, Thorium



## Project Information Highlights

### Site Summary

**WP008: Sludge Drying Beds** — Active 1958–1970's; received industrial wastes from engine testing and missile hardness testing operations.

- Two shallow 40' x 50' inlined pits.
- Received sludges from adjacent water treatment plant in 1960's.
- Received phenolic paint strippers from Hill AFB in 1970's; since unused.
- Investigations began in 1988.
- RI completed 1990.
- RI reopened in 1998 to investigate nature and extent of contamination.

**Magnesium-Thorium Scrap Material Disposal Area:** Active 1958-1970's; received scrap material from the manufacture of aircraft components.

- Not an IRP site.
- Investigated in 1993–1994.
- Fence installed around area.
- Trench area identified and fenced (1995). Institutional controls in place.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Investigations at WP008	1998–Present	To be determined Basewide 5-Year Review	To be determined 2003

### Funding

	Historical* (thru FY99)	FY00	FY01 - Completion
Study	\$300,000	\$238,806	\$240,000
Design & Construction	-	-	\$1,838,000
Operation & Maintenance	-	-	\$1,740,000
Monitoring	-	-	\$300,000

# Little Mountain Test Annex

(IRP Site: WP008)

Program Manager: Steve Hicken

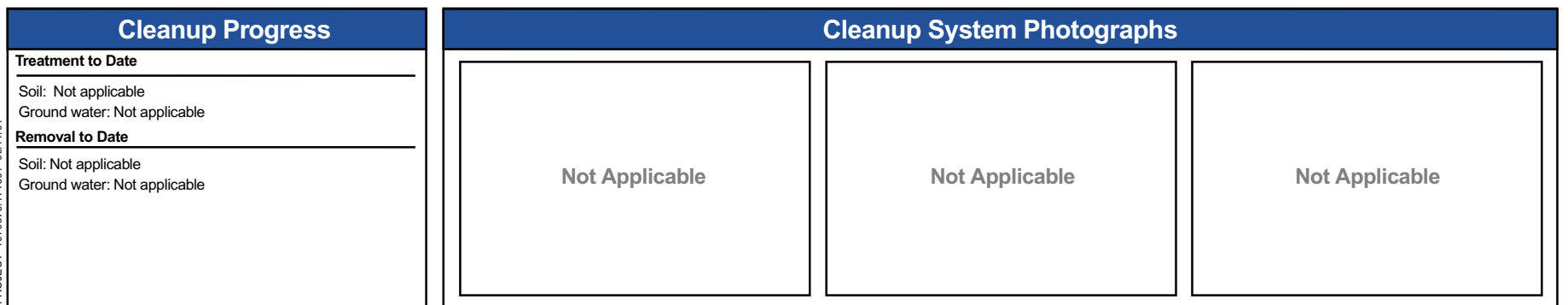
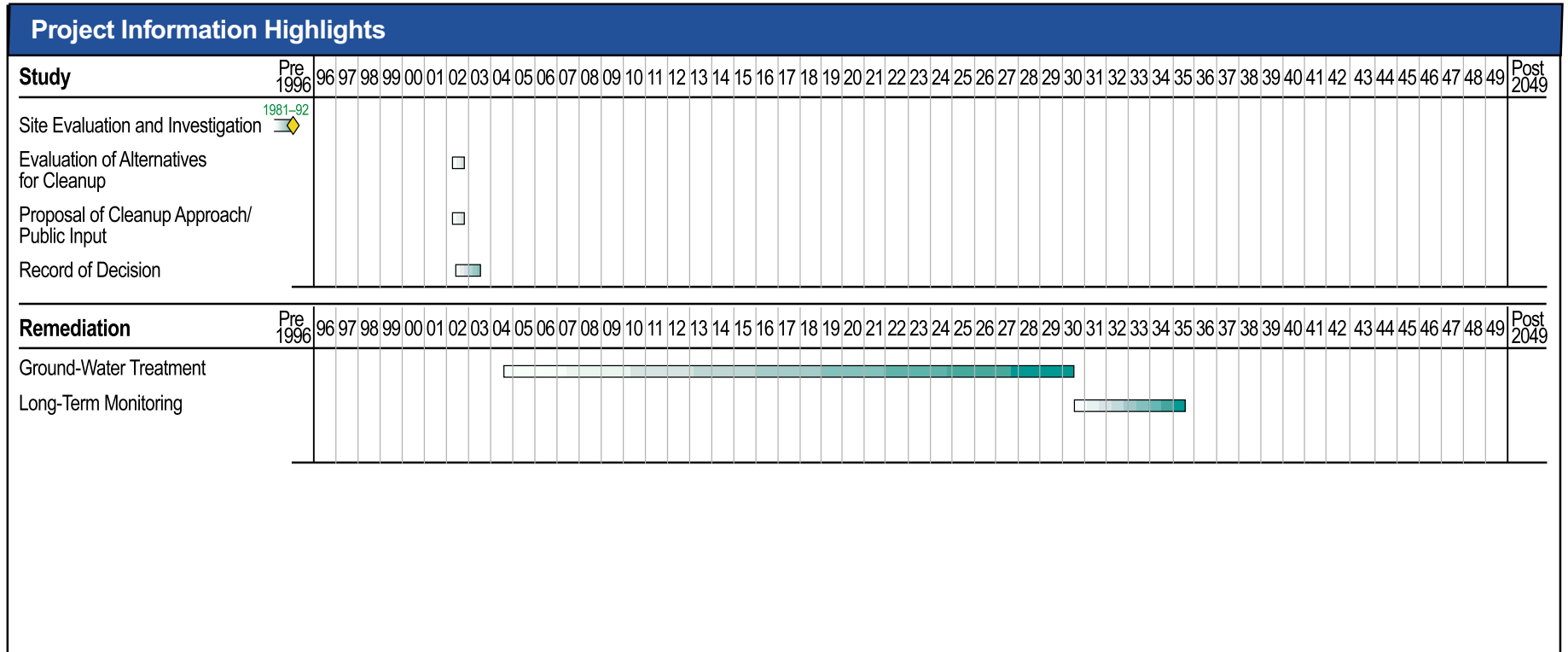
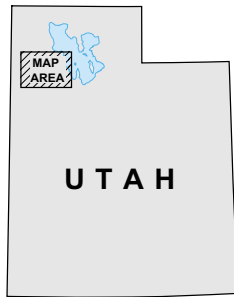


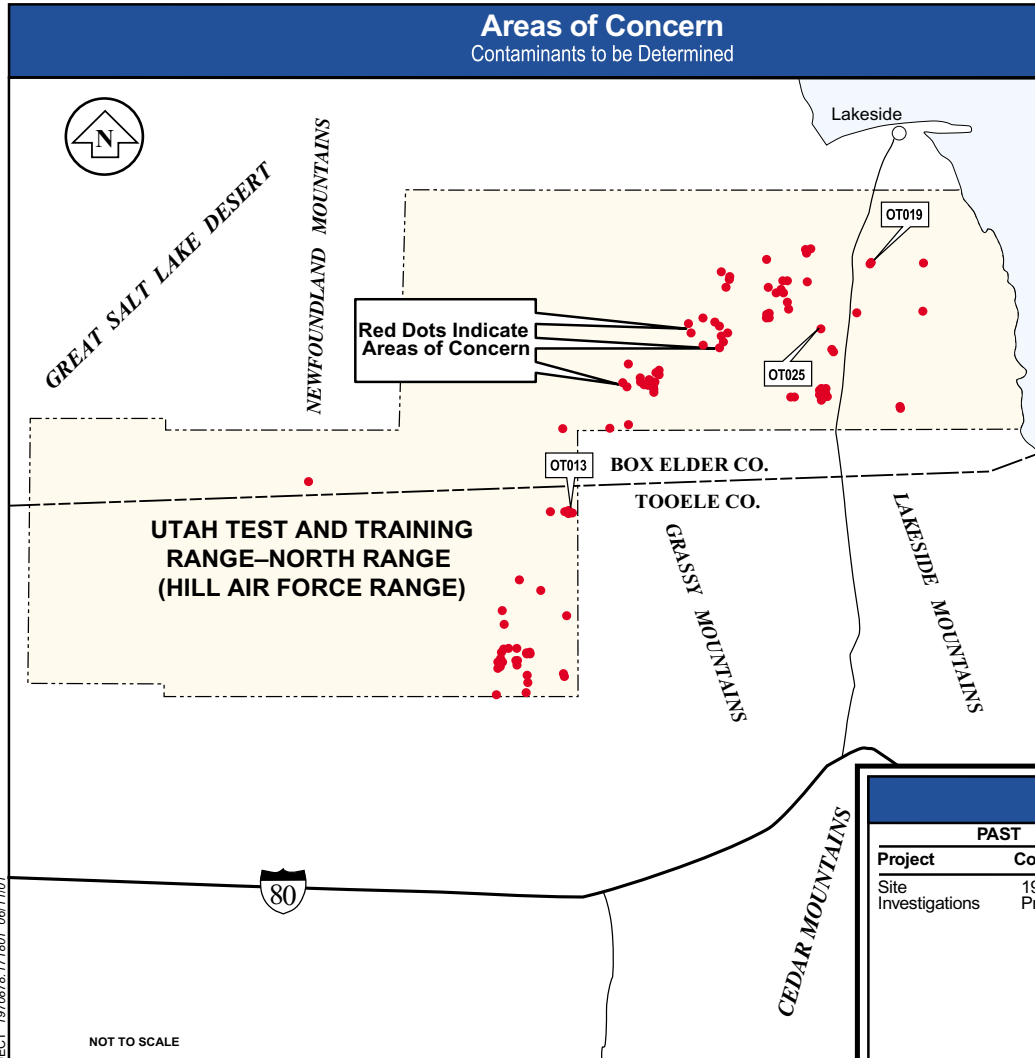
Figure 2-6r

PROJECT 1970878.171801 06/11/01



# UTTR-North

(IRP Sites: OT019, WP025, OT104, and OT105)  
Program Manager: Steve Hicken



### Project Information Highlights

#### Site Summary

**OT013:** Herbicide Orange Test — Activity was from 1972–1974. Herbicide testing has impacted shallow and surface soils.

**OT019:** TTU Disposal Trenches — Active 1940's — 1980s. Disposal of ordnance, missile motors, and munitions residues from detonations and/or burns.

**WP025:** Chemical Disposal Pit 4 — Active 1973–1975; waste oil and solvents, diesel fuel.

**OT104:** Area of investigations on north half of UTTR-North — investigation is ongoing.

**OT105:** Area of investigations on south half of UTTR-North — investigation in 1999/2000.

Milestones			
PAST		FUTURE	
Project	Completion	Project	Completion
Site Investigations	1981-Present	Agree regulatory mechanism	2001
		Basewide 5-Year Review	2003
		Long term monitoring	2049+

Funding			
	Historical* (thru FY99)	FY00	FY01 - Completion
Study	\$623,000	\$627,748	\$620,000
Design & Construction	-	-	\$650,000
Operation & Maintenance	-	-	\$1,500
Monitoring	-	-	\$4,155,000

\* Not tracked Separately before 1998.

# UTTR-North

(IRP Sites: OT019, WP025, OT104, and OT105)

Program Manager: Steve Hicken

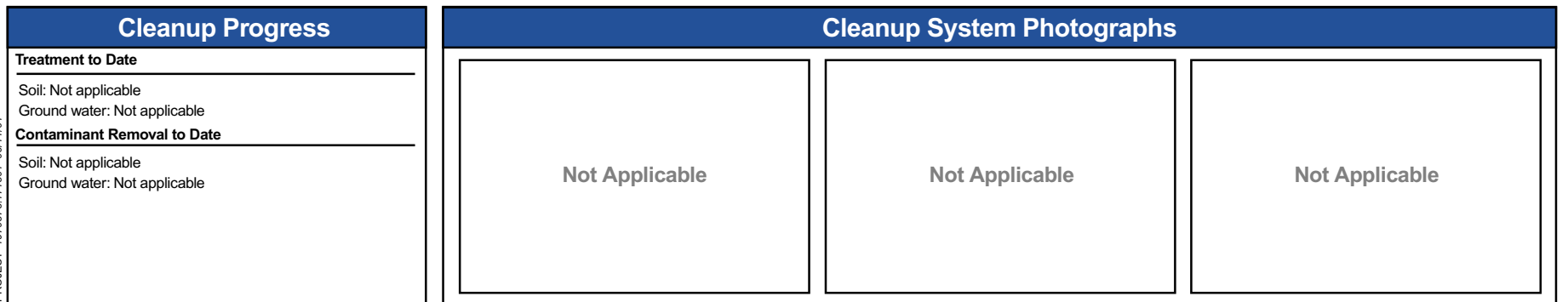
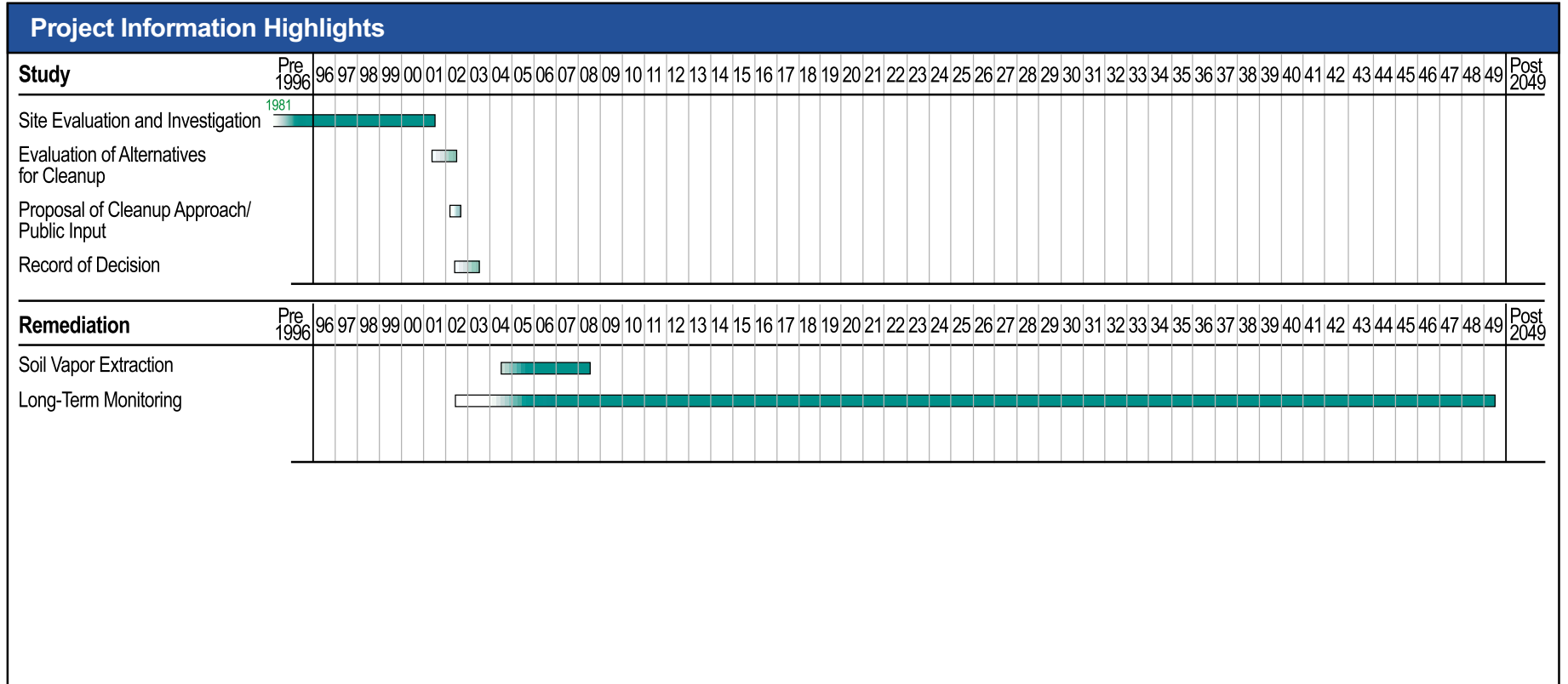




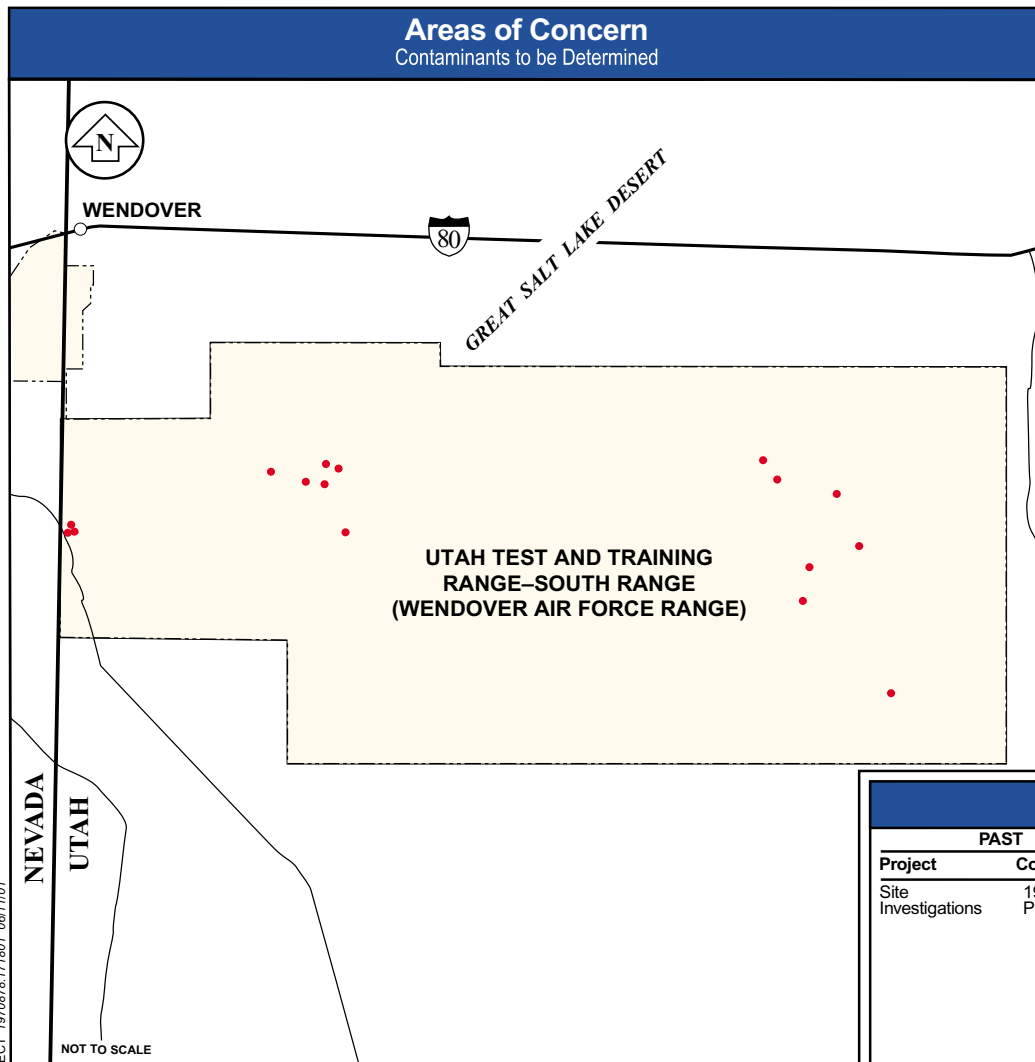
Figure 2-6s

PROJECT 1970876.171801 06/11/01



# UTTR-South

(IRP Sites: OT102 and OT103)  
Program Manager: Steve Hicken



### Project Information Highlights

#### Site Summary

**OT102:** AOIs on east side of UTTR-South. Preliminary Assessment completed in 1999.

**OT103:** AOIs on west side of UTTR-South. Preliminary Assessment completed in 1999.

Milestones			
PAST		FUTURE	
Project	Completion	Project	Completion
Site Investigations	1981-Present	Agree regulatory mechanism	2001
		Basewide 5-Year Review	2003
		Long term monitoring	2049+

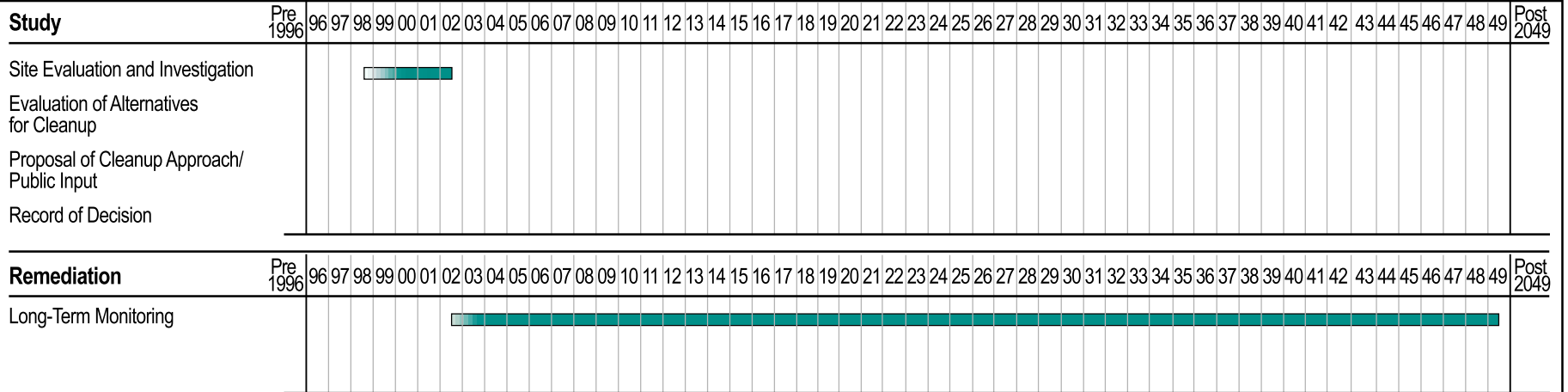
Funding			
	Historical* (thru FY99)	FY00	FY01 - Completion
Study	\$623,000	\$246,578	\$250,000
Design & Construction	-	-	-
Operation & Maintenance	-	-	-
Monitoring	-	-	\$1,620,000

\* Not tracked Separately before 1998.

# UTTR-South

(IRP Sites: OT102 and OT103)  
Program Manager: Steve Hicken

## Project Information Highlights



## Cleanup Progress

### Treatment to Date

Soil: Not applicable  
Ground water: Not applicable

### Contaminant Removal to Date

Soil: Not applicable  
Ground water: Not applicable

## Cleanup System Photographs

Not Applicable

Not Applicable

Not Applicable



# Wendover Air Force Auxiliary Field

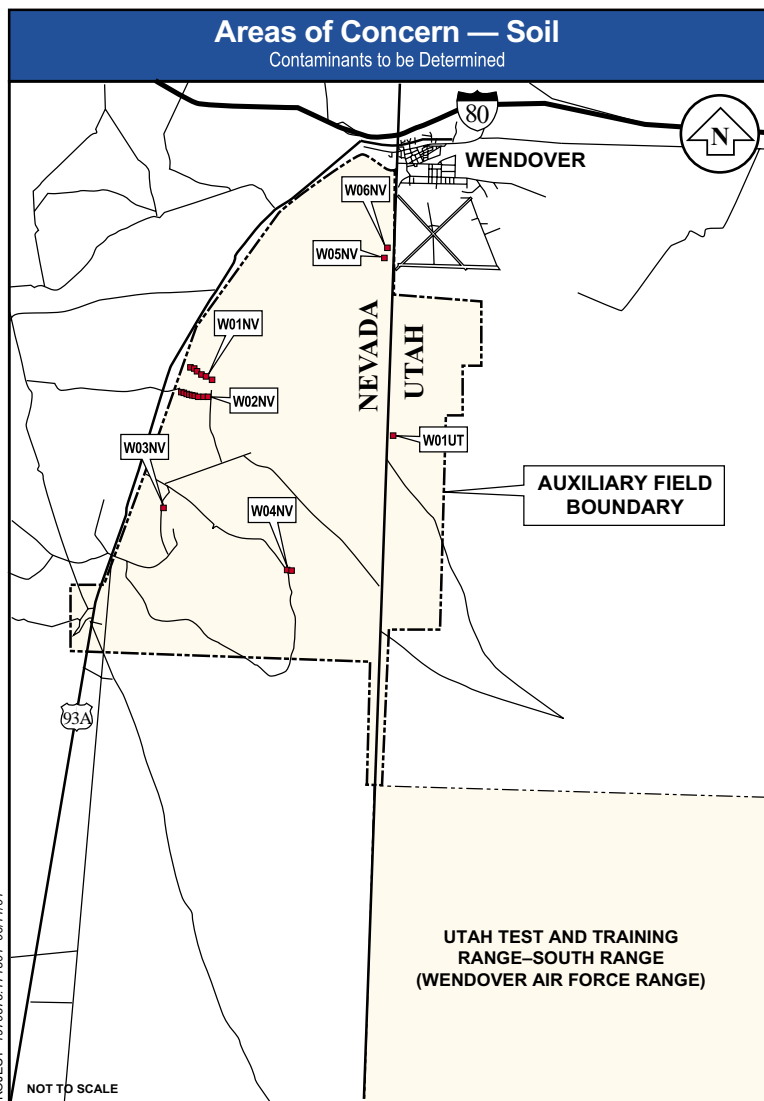
(IRP Site: LF058 and other AOC's)

Program Manager: Steve Hicken



## Areas of Concern — Soil

Contaminants to be Determined



## Project Information Highlights

### Site Summary

**LF058 and other AOC's:** Landfill and Maintenance Facilities — Active 1940's-1982; solid waste, spent munitions, waste solvents, suspected ordnance.

- Primary landfill and maintenance areas that supported aircraft and bombardment training missions and subsequent missile development/testing activities.
- Investigations conducted 1992-1994.
- None of the 18 sites presented quantifiable risks.
- Long term annual ground-water monitoring since 1995.

### Milestones

PAST		FUTURE	
Project	Completion	Project	Completion
Site Investigations	1994	Long Term Monitoring	2029+

### Funding

	Historical* (thru FY99)	FY00	FY01 - Completion
Study	-	\$594,428	\$273,000
Design & Construction	\$677	-	\$150,000
Operation & Maintenance	\$2,600	-	-
Monitoring	-	-	\$695,000

\* Not tracked separately before 1998.

**Program Manager: Steve Hicken**

